

SONY®

TRILUMINOS

WEGA ENGINE HD

MEMORY STICK™ **S-MASTER**
Digital Amplifier **HDMI**

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Owner's Guide

QUALIA 005

Q U A L I A 005

Owner's Record

The model and serial numbers are located at the rear of the Display Unit, below the Sony logo, on the sticker, and also on the Media Receiver Unit (white label). Record these numbers in the spaces provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No.

Display Unit _____

Media Receiver Unit _____

Serial No.

Display Unit _____

Media Receiver Unit _____

Product Name:

LCD Digital Color TV

Model Name:

KDX-46Q005

Display Unit: XDM-F4600Q

Media Receiver Unit: MBD-Q005

Contacting Sony

If, after reading the following instructions, you have additional questions related to the use of your Sony TV, Please call one of the following numbers.

Customers in the continental United States contact the QUALIA Customer Center at:

1-877-QUALIA3 (782-5423)

Customers in Canada contact the Customer Information Service Center at:

1-877-899-SONY (7669)

WARNING

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.



This symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION

To prevent electric shock, do not use this polarized AC plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

Note on Caption Vision

This television receiver provides display of television closed captioning in accordance with §15.119 of the FCC rules.

For Customers in the United States

If you have any questions about this product, you may call:

QUALIA Customer Center
1-877-QUALIA3 (782-5423)

The number below is for FCC related matters only.

Declaration of Conformity

Trade Name: SONY

Model No.: MBD-Q005

Responsible Party: Sony Electronics Inc.

Address: 16450 W. Bernardo Dr.,

San Diego, CA 92127 U.S.A.

Telephone Number: 858-942-2230

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference; and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTIFICATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your warranty and your authority to operate this equipment.

(Continued)

For Customers in Canada

This Class B digital apparatus complies with Canadian ICES-003.

Safety

- Operate this TV only on 120 V AC.
- Use the AC power cord specified by Sony and suitable for the voltage where you use it.
- The plug is designed, for safety purposes, to fit into the wall outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- If any liquid or solid object should fall inside the cabinet, unplug the TV immediately and have it checked by qualified service personnel before operating it further.
- If you will not be using the TV for several days, disconnect the power by pulling the plug itself. Never pull on the cord.
- For details concerning safety precautions, see "Important Safeguards" on page 5.

Installing

- The TV should be installed near an easily accessible power outlet.
- To prevent internal heat buildup, do not block the ventilation slots.
- Do not install the TV in a hot or humid place, or in a place subject to excessive dust or mechanical vibration.
- Avoid operating the TV at temperature below 41°F (5°C).
- If the TV is transported directly from a cold to a warm location, or if the room temperature changes suddenly, the picture may be blurred or show poor color. In this case, please wait a few hours to let the moisture evaporate before turning on the TV.
- To obtain the best picture, do not expose the screen to direct illumination or direct sunlight. It is recommended to use spot lighting directed down from the ceiling or to cover the windows that face the screen with opaque drapery. It is desirable to install the TV in a room where the floor and walls are not of a reflective material.

Note

This digital television is capable of receiving analog basic, digital basic and digital premium cable television programming by direct connection to a cable system providing such programming. A security card provided by your cable operator is required to view encrypted digital programming. Certain advanced and interactive digital cable services such as video-on-demand, a cable

operator's enhanced program guide and data-enhanced television services may require the use of a set-top box. For more information call your local cable operator.

This television also includes a QAM demodulator which should allow you to receive unscrambled digital cable television programming via subscription service to a cable service provider. Availability of digital cable television programming in your area depends on the type of programming and signal provided by your cable service provider.

Trademark Information

CableCARD™ is a trademark of Cable Television Laboratories, Inc.

TruSurround, SRS and the (●)® symbol are trademarks of SRS Labs, Inc. TruSurround technology is incorporated under license from SRS Labs, Inc.

BBE and BBE Symbol are trademarks of BBE Sound, Inc. and are licensed by BBE Sound, Inc. under U.S. Patent No. 4,638,258 and 4,482,866.

Macintosh is a trademark licensed to Apple Computer, Inc., registered in the U.S.A and other countries.



Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.



This TV incorporates High-Definition Multimedia Interface (HDMI™) technology. HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

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Caution

This TV for use only with Sony TABLE-TOP STAND SU-XTQ005, WALL-MOUNT BRACKET SU-XWQ005, and FLOOR STAND SU-XFQ005. Use with other stand models may result in instability causing possible injury.

Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation slots. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15) Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.



Important Safeguards

Before using your TV, please read these instructions completely, and keep this manual for future reference.

Carefully observe and comply with all warnings, cautions and instructions placed on the set or described in the operating instructions or service manual.

WARNING

To guard against injury, the following basic safety precautions should be observed in the installation, use and servicing of the set.

Use

Power Sources

This set should be operated only from the type of power source indicated on the serial/model plate.



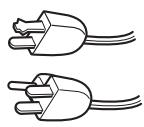
If you are not sure of the type of electrical power supplied to your home, consult your dealer or local power company.

Grounding or Polarization

This set is equipped with a polarized AC power cord plug (a plug having one blade wider than the other), or with a three-wire grounding type plug (a plug having a third pin for grounding). Follow the instructions below:

For the set with a polarized AC power cord plug

This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still fails to fit, contact your electrician to have a suitable outlet installed. Do not defeat the safety purpose of the polarized plug by forcing it in.



Wall outlet

Do not use a poor fitting outlet.

Insert the plug fully into the outlet. If it is loose, it may cause arcing and result in fire. Contact your electrician to have the outlet changed.



Wiring

For your safety, unplug the AC power cord when wiring cables.

(Continued)

Electric shock

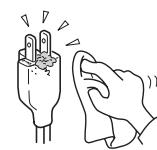
Do not touch the AC power cord or the unit with a wet hand.

If you plug/unplug the AC power cord from the unit with a wet hand, it may cause electric shock.



Cleaning

- Clean the AC power plug regularly.
- If the plug is covered with dust and it picks up moisture, its insulation may deteriorate and result in fire. Unplug the AC power plug and clean it regularly.
- Unplug the AC power cord when cleaning this unit. If not, it may result in electric shock.
- Clean the cabinet of the TV with a dry soft cloth. To remove dust from the screen, wipe it gently with a soft cloth. Stubborn stains may be removed with a cloth slightly dampened with solution of mild soap and warm water. Never use strong solvents such as thinner or benzine for cleaning.
- If using a chemically pretreated cloth, please follow the instruction provided on the package.
- If the picture becomes dark after using the TV for a long period of time, it may be necessary to clean the inside of the TV. Consult qualified service personnel.
- Clean the rear cover area of the display unit and both sides of the media receiver unit regularly. Dust in these areas may cause a problem with the cooling system of the TV set.



For the set with a three-wire grounding type AC plug

This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to have a suitable outlet installed. Do not defeat the safety purpose of the grounding plug.



Overloading

Do not overload wall outlets, extension cords or convenience receptacles beyond their capacity, since this can result in fire or electric shock.



Power

Always turn the set off when it is not being used. When the set is left unattended and unused for long periods of time, unplug it from the wall outlet as a precaution against the possibility of an internal malfunction that could create a fire hazard.



Sound

If a snapping or popping sound from a TV set is continuous or frequent while the TV is operating, unplug the TV and consult your dealer or service technician. It is normal for some TV sets to make occasional snapping or popping sounds, particularly when being turned on or off.



AC power cord

If you damage the AC power cord, it may result in fire or electric shock.

- Do not pinch, bend, or twist the cord excessively. The core lines may be bared and cut, and cause short-circuit, resulting in fire or electric shock.
- Do not convert or damage the AC power cord or display interface cable.
- Do not put anything heavy on the AC power cord. Do not pull the AC power cord.
- Keep the AC power cord away from heat sources.
- Be sure to grasp the plug when disconnecting the AC power cord.

If the AC power cord is damaged, stop using it and ask your dealer or Sony service center to exchange it.

Batteries

Do not dispose of batteries in fire.

Do not short circuit, disassemble or overheat the batteries.

Dispose of used batteries

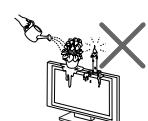
To preserve our environment, dispose the used batteries according to your local laws or regulations.

Object and Liquid Entry

Never push objects of any kind into the set through the cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the set.

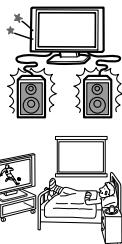


Do not place any objects on the unit. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.



Attachments

Do not use attachments not recommended by the manufacturer, as they may cause hazards.



Medical institution

Do not place this unit in a place where medical equipment is in use.

It may cause malfunction of medical instruments.

Moisture and flammable objects

- Do not use power-line operated sets near water — for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc. It may result in fire or electric shock.
- Do not let this unit get wet. Never spill liquid of any kind on the unit. If any liquid or solid object does fall through, do not operate the unit. It may result in electric shock or damage to the unit. Have it checked immediately by qualified personnel.
- To prevent fire, keep inflammable objects or naked lights (e.g. candles) away from the unit.



Accessories

Do not place the set on an unstable cart, stand, table or shelf. The set may fall, causing serious injury to a child or an adult and serious damage to the set. Use only a cart or stand recommended by the manufacturer for the specific model of TV. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



Broken pieces

Do not throw anything at the unit.

The screen glass may break by the impact and cause serious injury.

Cable wiring

Take care not to catch your feet on the cables. It may damage the unit.

Heat

Do not touch the surface of the TV.

It remains hot, even for some time after the TV is turned off.

Volume adjustment

Adjust the volume so as not to trouble your neighbors. Sound carries very easily at night time. Therefore, closing the windows or using headphones is suggested.

When using headphones, adjust the volume so as to avoid excessive levels, as hearing damage may result.

Disposal of the TV

- Do not dispose the TV with general household waste.
- The LCD contains a small amount of liquid crystal. Follow your local ordinances and regulations for disposal.

Handling of broken glass and liquid crystal leakage

If the LCD panel gets damaged, crystalline liquid leakage may occur, or scattered broken glass may result. Do not touch broken glass or crystalline liquid (which is toxic), with bare hands as cuts or poisoning/skin irritation may occur. Also, do not let glass fragments or leaked crystalline liquid get into your eyes or mouth. Should either contact your eyes or mouth, rinse the contacted area thoroughly with water and consult your doctor.

LCD screen

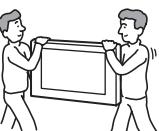
- Although the LCD screen is made with high-precision technology and has effective pixels of 99.99% or more, black dots may appear or bright points of light (red, blue, or green) may appear constantly on the LCD screen. This is a structural property of the LCD panel and is not a malfunction.
- Do not expose the LCD screen surface to the sun. Doing so may damage the screen surface.
- Do not push or scratch the front filter, or place objects on top of the TV. The image may be uneven or the LCD panel may be damaged.
- If the TV is used in a cold place, a smear may occur in the picture or the picture may become dark. This does not indicate a failure. These phenomena improve as the temperature rises.
- Ghosting may occur when still pictures are displayed continuously. It may disappear after a few moments.
- The screen and cabinet get warm when the TV is in use. This is not a malfunction.
- Avoid spraying insect repellent with volatile material to the screen.
- Avoid prolonged contact with rubber or plastic made material.

(Continued)

Installation and moving

Carry the TV in the specified manner

If you carry the TV in a manner other than the specified manner and without the specified number of persons, it may drop and a serious injury may be caused. Be sure to follow the instructions mentioned below.



- Carry the TV with the specified number of persons (see page 25).
- Hold the TV tightly when carrying it.
- Before carrying the TV, disconnect any accessories or cables.

Installation

- When installing the display unit on the wall, be sure to have assemblers install and keep away from the unit. If a person other than the assemblers install the display unit on the wall using a wall mount unit, the unit may fall and cause serious injury if the unit is not installed securely.
- To prevent injury, this apparatus must be securely attached to the stand/wall in accordance with the installation instructions.



Placement for viewing

It is recommended to watch the TV at a distance of 3-7 times that of the screen, and in moderate brightness. Watching the TV for too long or in a dark room will cause eye fatigue.

Recommended place for the media receiver unit

Place the media receiver unit on a stable, level surface. Otherwise, the media receiver unit may fall and cause injury. Use an optional Sony stand, which has adequate strength.



Weight

Do not stand on the media receiver unit. The unit may fall or break, causing injury. Pay special attention to little children.

Optional accessories

Observe the following when installing the TV using a stand or wall-mount bracket. If the TV is not secured properly, it may fall and cause injury.



- Be sure to follow the operating instructions supplied with your stand or wall-mount bracket when installing the unit.
- Be sure to attach the brackets supplied with your stand or wall-mount bracket.

Protruding location

Do not install the TV in protruding locations. If you install the unit in the following locations, injury may result.

- Do not install the unit in a location where the unit protrudes, such as pillars.
- Do not install the unit in a location that may cause facial injury.

Oils

Do not install this unit in restaurants where oily vapors occur. Dust absorbing oil may enter into the unit and damage the unit.

Corrosion

Use of this set near the seashore may subject the set to excessive salt, corrosion and internal damage and result in deterioration of the set's performance. If the set will be subjected to these conditions, steps should be taken to reduce the humidity and temperature of the area where the set is located.

Ventilation

The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable operation of the set, and to protect it from overheating, these slots and openings must never be blocked or covered.

Unless proper ventilation is provided, the unit may gather dust and get dirty. For proper ventilation, observe the following:



- Do not install the unit turned backward or sideways.
- Do not install the unit turned over or upside down.
- Never cover the slots and openings with a cloth or other materials.



- Never block the slots and openings by placing the set on a bed, sofa, rug or other similar surface.

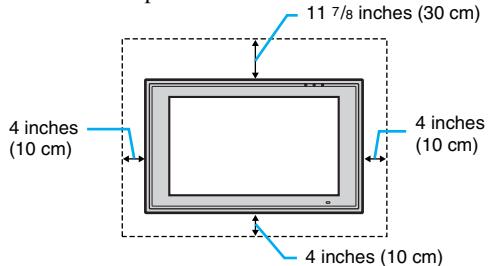


- Never place the set in a confined space, such as a bookcase or built-in cabinet, unless proper ventilation is provided.

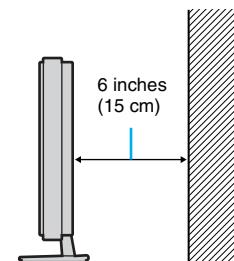
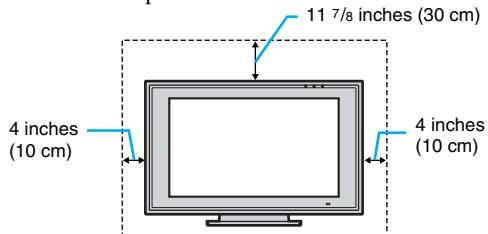


- Leave some space around the unit. When installing the unit against a wall, keep it at least 4 inches (10 cm) away from the wall. Otherwise, adequate air circulation may be blocked, causing overheating that may result in fire or damage to the unit.

When installing the unit on the wall,
allow this much space.

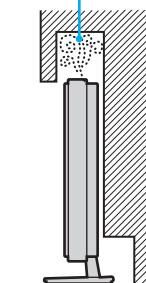


When installing the unit using a stand,
allow this much space.

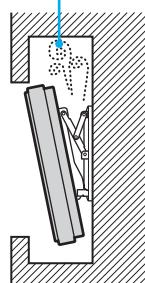


Never install the unit as follows:

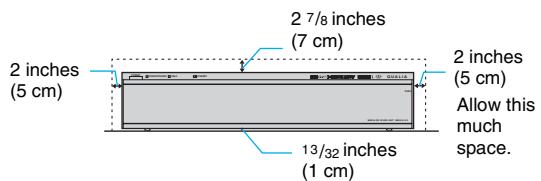
Air circulation is blocked.



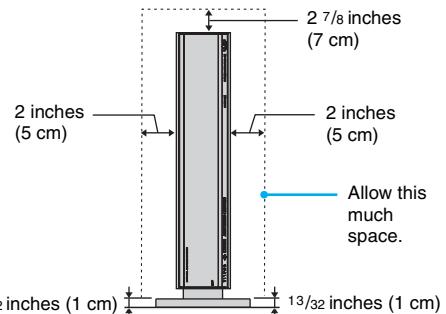
Air circulation is blocked.



Media receiver unit: Front view



When installing upright:



Place the media receiver unit on a stable level surface so as not to block the inlets at the bottom of the media receiver unit.

Media receiver unit: Top view

Never place the media receiver unit in a confined space. Make sure to provide sufficient space in front of the front and back of the media receiver unit. Failure to do so may cause overheating and result in fine or damage to the unit. Ensure reliable operation of the unit by ensuring proper ventilation of the exhaust fan.



Outdoor use

Do not install this unit outdoors. If the unit is exposed to rain, it may result in fire or electric shock. If the unit is exposed to direct sunlight, the unit may heat up and it may damage the unit.



Vehicle and ceiling

Do not install this unit in a vehicle or hung from the ceiling.



Bumping of the vehicle may cause the set to fall down and cause injury.

(Continued)

Ship and vessel

Do not install this unit in a ship or vessel. If the unit is exposed to seawater, it may cause fire or damage the unit.



Preventing the TV from toppling over

Take measures to prevent the unit from toppling over and causing injury.

To prevent the unit from toppling over, secure the unit to the wall or pillar.

Installing on a level surface

If you install the unit on an inclined surface, the unit may fall or drop and cause injury or damage.



Placing on a stable surface

If you place the unit on an unstable surface, the unit may fall and cause injury or damage.



Fall

Do not hang anything on the unit.

The unit may fall from the stand or wall-mount unit, causing damage or serious injury.



AC power cord

Unplug the AC power cord when moving the unit. Do not move the unit with the AC power cord plugged in. It may damage the AC power cord and result in fire or electric shock.



Do not allow anything to rest on or roll over the power cord, and do not place the unit where the power cord is subject to wear or abuse.

Magnet influence

This TV contains a strong magnet in the speaker unit that generates a magnetic influence. Keep any items susceptible to magnetic influence away from the TV speaker.

Antennas

Outdoor Antenna Grounding

If an outdoor antenna is installed, follow the precautions below. An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits.

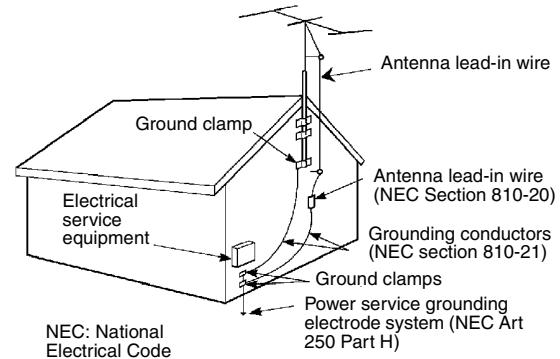
WHEN INSTALLING AN OUTDOOR ANTENNA SYSTEM, EXTREME CARE SHOULD BE TAKEN TO KEEP FROM CONTACTING SUCH POWER LINES OR CIRCUITS AS CONTACT WITH THEM IS ALMOST INVARIABLY FATAL.

Be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges.

Section 810 of the National Electrical Code (NEC) in USA and Section 54 of the Canadian Electrical Code in Canada provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Antenna Grounding According to the NEC

Refer to section 54-300 of Canadian Electrical Code for Antenna Grounding.



Lightning

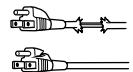
For added protection for this television receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the receiver due to lightning and power-line surges.

Service

Damage requiring service

Unplug the set from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power cord or plug is damaged or frayed.
- If liquid has been spilled into the set.
- If the surface of the TV cracks, do not touch it, unplug the AC power cord. Otherwise electric shock may result.



- If the set has been exposed to rain or water.
- If the set has been subject to excessive shock by being dropped, or the cabinet has been damaged.
- If the set does not operate normally when following the operating instructions. Adjust only those controls that are specified in the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the set to normal operation.
- When the set exhibits a distinct change in performance, it indicates a need for service.



Servicing

Do not attempt to service the set by yourself since opening the cabinet may expose you to dangerous voltage or other hazards.



Replacement parts

When replacement parts are required, be sure the service technician certifies in writing that he has used replacement parts specified by the manufacturer that have the same characteristics as the original parts.



Unauthorized substitutions may result in fire, electric shock or other hazards.

Safety check

Upon completion of any service or repairs to the set, ask the service technician to perform routine safety checks (as specified by the manufacturer) to determine that the set is in safe operating condition, and to so certify. Ask a qualified service technician to dispose of the set.



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Introducing the Sony LCD TV

Presenting the Sony LCD TV

Thank you for purchasing this high definition built-in Sony LCD TV. This manual is for model KDX-46Q005.

Package Contents

Along with your new LCD TV (Display Unit and Media Receiver Unit), the packing box contains a remote control and two AA (R6) batteries. It also contains cables and cords necessary for setup. See page 144 for the complete list of packaging contents.

Using This Manual

We recommend that you carefully review the contents of the following six sections in the order shown to ensure that you fully understand the operation of your new TV.

1 Setting Up the TV

This section guides you through your initial setup. It shows you how to install your TV, to connect your new components and to connect the antenna and cable.

2 Using the Remote Control

This section shows you how to begin using your new TV. It also shows you how to use your remote control functions.

3 Using the Features

This section provides information on using the Program Guide, Wide Screen Mode, Twin View, Favorite Channels and Freeze Function.

4 Using the Memory Stick Viewer

This section shows you how to use the Memory Stick Viewer to view files that are stored on Memory Stick media, such as photographs and movies.

5 Using i.LINK

This section explains how to use the i.LINK feature.

6 Using the Menus

This section teaches you how to access on-screen menus and adjust your TV settings.

Instructions in this manual are written for the remote control. Similar controls are also found on the TV console.

Features

Some of the features that you will enjoy with your new TV include:

- **WEGA Engine™:** Delivers superb picture quality from any video source by minimizing the signal deterioration caused by digital-to-analog conversion and stabilizing the signal processing. This engine features unique Sony technology, including:
 - The first step in the digital processing system, Composite Component Processor (CCP-X), which enhances input signal-to-noise ratio by chroma decoder digital processing.
 - **DRC (Digital Reality Creation®) MultiFunction 2 circuitry:** Enables the digital mapping of any NTSC source (DVD, VHS, DBS, Cable, etc.), to create a picture that is precise and finer in detail, rivaling high definition resolution. Incoming HD signals (1080i) are also bitmapped, utilizing Sony's proprietary algorithm to provide a crisp and clear picture.
 - **IFP (Image Format Processor):** The Digital Texture Enhancer function of this chip provides the optimal contrast by utilizing a wide dynamic range. This chip also reduces signal noise, by using an improved motion vector algorithm, while maintaining image sharpness.
- **Integrated HDTV:** You can watch digital television programs and enjoy the improved audio/video quality offered by these programs.
- **S-master Full Digital Amplifier:** Delivers superb clear dialog and reproduces the original sound quality while minimizing any sound fragmentation or jitter noise.
- **BN Smoother™:** Reduces the block noise caused by digital video encoding and decoding process.
- **CineMotion®:** Using the reverse 3-2 pull down technology, the CineMotion feature provides smoother picture movement when playing back movies or other video sources on film.
- **Twin View®:** Twin View allows you to watch two programs side by side with the ability to zoom in on one picture and listen to the program in the selected window. You can watch pictures from two different sources (1080i, 720p, 480p or 480i) simultaneously.
- **Memory Stick Viewer:** Allows you to view digital photos (JPEG) and movies (MPEG1) from Memory Stick media on your TV screen.
- **Parental Control:** V-Chip technology allows parents to block unsuitable programming from younger viewers.
- **CableCARD™ slot:** Provides cable subscribers with access to digitally encrypted cable channels — without the need for a set-top box — that will enable you to receive not only standard definition but also high definition television. The CableCARD, which is provided by your cable

TV company, is inserted into the TV's rear panel CableCARD slot. After the service is activated with your cable TV company, the card replaces the need for a separate set-top box. (Check with your cable TV company about CableCARD service details, limitations, pricing, and availability. For more information about CableCARD in this manual, see page 57.)

- Component Video Inputs:** Offers the best video quality for DVD (480p, 480i) and digital set-top box (1080i, 720p, 480p, 480i) connections.
- S VIDEO Inputs:** Provides a high-quality image from connected equipment.
- Favorite Channel Preview:** Allows you to preview up to sixteen favorite channels without leaving the current channel.
- Wide Screen Mode:** Allows you to watch 4:3 normal broadcasts in wide screen mode (16:9 aspect ratio).
- Steady Sound®:** Equalizes volume levels so there is consistent output between programs and commercials.
- HDMI (High-Definition Multimedia Interface):** Provides an uncompressed, all-digital audio/video interface between this TV and any HDMI-equipped audio/video component, such as a set-top box, DVD player, and A/V receiver. HDMI supports enhanced, or high-definition video, plus two-channel digital audio.
- iLINK:** Provides a secure digital interface to other digital home entertainment devices. iLINK allows for the secure transfer of copyright-protected high-definition content between these devices and your TV.
- Light Sensor:** Allows the picture brightness level to be optimized to ambient light. The effect from the Light Sensor depends on the setting of Picture Mode and Power Saving. The factory setting is Off.

Setting Up the TV

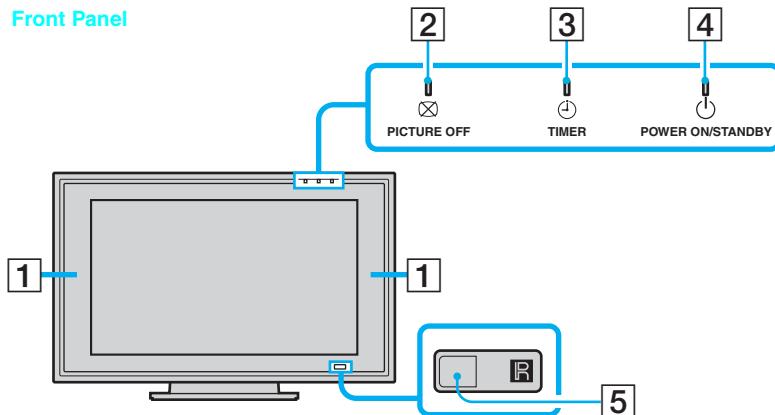
Overview

This chapter includes illustrated instructions for setting up your TV.

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TV Controls and Connectors	20
Installing the TV	25
Basic Connections: Connecting a Cable or Antenna	30
Connecting Optional Equipment	35
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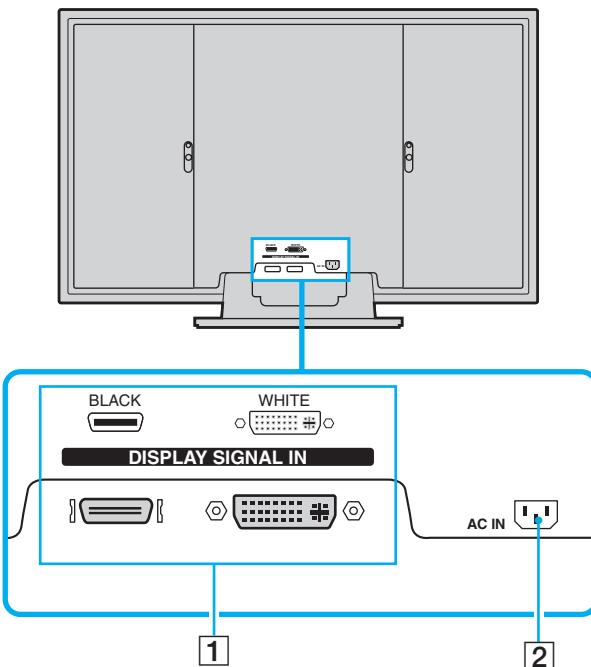
TV Controls and Connectors

Display Unit



Item	Description
1 Speakers (Left/Right)	Output audio signal.
2 PICTURE OFF LED	When lit, indicates that the Picture Off feature is activated. For details, see page 80.
3 TIMER LED	When lit, indicates one of the timers is set. When the timer is set, this LED will remain lit even if the TV set is turned off. For details, see page 130.
4 POWER ON/STANDBY LED	Lights up in green when the TV set is turned on. The LED lights up in red when in standby mode. If the LED blinks in red continuously, this may indicate the media receiver unit needs servicing (see "Contacting Sony" on page 135).
5 (IR) Infrared Receiver	Receives IR signals from the remote control.

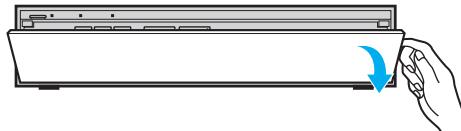
Rear Panel



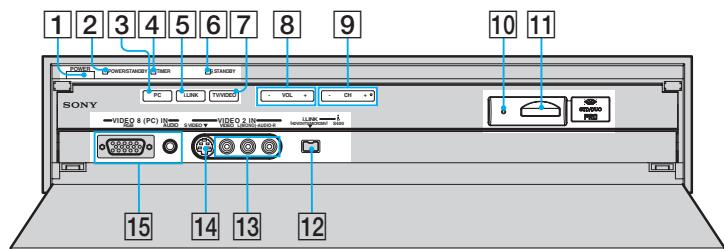
Item	Description
1 DISPLAY SIGNAL IN	Connect to the DISPLAY SIGNAL OUT jacks on the rear of the media receiver unit by using the supplied display interface cable.
2 AC IN	Connects the supplied AC power cord.

Media Receiver Unit

To open the front panel of the media receiver unit:



Front Panel

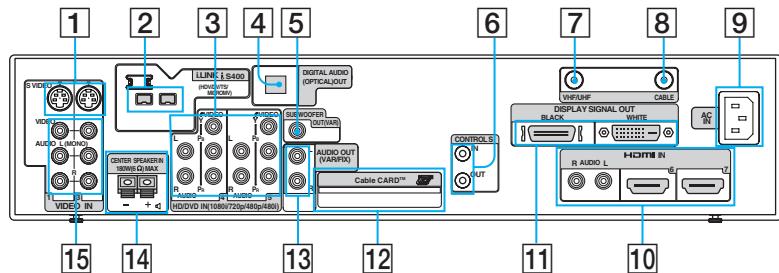


(Continued)

Item	Description
[1] Main POWER	Press to turn on and off the main power of the TV set.
[2] POWER/STANDBY LED	Lights up in green when the TV set is turned on. The LED lights up in red when in standby mode. If the LED blinks in red continuously, this may indicate the media receiver unit needs servicing (see "Contacting Sony" on page 135).
[3] PC button	Press to display the screen of the connected PC. For details, see page 81.
[4] TIMER LED	When lit, indicates a timer is set. When the timer is set, this LED will remain lit even if the TV set is turned off. For details, see page 130.
[5] i.LINK button	Press to display the i.LINK Control Panel. For details, see page 105.
[6] i.LINK STANDBY LED	When lit in red, indicates the i.LINK Standby is on. For details, see page 126.
[7] TV/VIDEO	Press to select between the TV's tuner and other video equipment inputs.
[8] – VOL +	Press to adjust the volume.
[9] – CH +	Press to scan through channels. To scan quickly through channels, press and hold down either CH - or + .
[10] Memory Stick indicator	When lit, indicates that the Memory Stick is being read. (Do not remove the Memory Stick when the indicator is lit.)
[11] Memory Stick slot	Memory Stick insertion slot. For details, see "Inserting and Removing a Memory Stick" on page 86.
[12] i.LINK	Connect to the i.LINK jack on your i.LINK-compatible portable device. Provides a secure digital connection between your TV and your i.LINK-compatible portable device.
[13] VIDEO 2 IN VIDEO/L (MONO)-AUDIO-R	Connect to the composite A/V output jacks on your camcorder or other video equipment.
[14] VIDEO 2 IN S VIDEO	Connect to the S VIDEO OUT jack on your camcorder or other video equipment that has S VIDEO. Provides better picture quality than composite video (13).
[15] VIDEO 8 (PC) IN	Connect to the video output connector and audio output jack on your personal computer. For details, see page 46.

 The **CH +** button has a tactile dot. Use the tactile as a reference when operating the TV.

Rear Panel



Connection	Description
1 VIDEO 1/3 IN S VIDEO	Connect to the S VIDEO OUT jack of your VCR or other video equipment that has S VIDEO. S VIDEO provides better picture quality than composite video (15).
2 i.LINK	Used for connecting i.LINK-equipped devices. These terminals are not intended for connection with personal computers.
3 HD/DVD 4 /5 IN (1080i/720p/480p/480i)	Connect to your DVD player's or digital set-top box's component video (YPbPr) and audio (L/R) jacks. Component video provides better picture quality than the S VIDEO (1) or the composite video (15) connections.
4 DIGITAL AUDIO (OPTICAL) OUT (PCM/DOLBY* DIGITAL)	Connects to the optical audio input of a digital audio component that is PCM/Dolby Digital compatible.
5 SUB WOOFER OUT (VAR)	Connects to the input jack of your sub woofer.
6 CONTROL S IN/OUT	Allow the TV to receive (IN) and send (OUT) remote control signals to other Sony infrared-controlled audio or video equipment that has the CONTROL S function.
7 VHF/UHF	RF input that connects to your VHF/UHF antenna.
8 CABLE	RF input that connects to your cable signal.
9 AC IN	Connects the supplied AC power cord.
10 VIDEO 6 IN and VIDEO 7 IN HDMI IN/R-AUDIO-L	HDMI (High-Definition Multimedia Interface) provides an uncompressed, all-digital audio/video interface between this TV and any HDMI-equipped audio/video component, such as a set-top box, DVD player, and A/V receiver. HDMI supports enhanced, or high-definition video, plus two-channel digital audio. You can also connect a DVI-equipped device to your TV by using an HDMI-DVI cable.
11 DISPLAY SIGNAL OUT	Connect to the DISPLAY SIGNAL IN jacks of the display unit by using the supplied display interface cable.

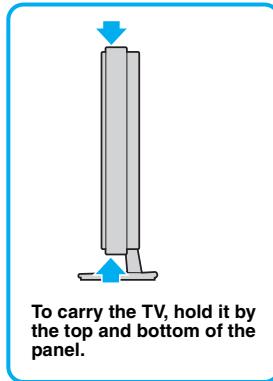
Connection	Description
12 CableCARD slot	CableCARD provides cable subscribers with access to secure, digitally encrypted cable channels -- without the need for a set-top box -- that will enable you to receive not only standard definition but also high definition television. For more information, see page 57.
13 AUDIO OUT (VAR/FIX) L/R	Connect to the left and right audio input jacks of your audio or video equipment. You can use these outputs to listen to your TV's audio through your stereo system.
14 CENTER SPEAKER IN 180W (6Ω) MAX	Connect the center output terminals of Dolby Pro Logic* system decoder amplifier. You can use the TV speakers as a center speaker.
15 VIDEO 1/3 IN VIDEO/L(MONO)-AUDIO-R	Connect to the composite A/V output jacks on your VCR or other video component. A third composite A/V input jack (VIDEO 2) is located on the front panel of the media receiver unit.

* Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

Installing the TV

Carrying Your TV

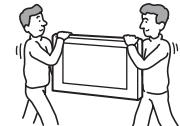
Carrying this TV requires at least two people. Do not hold by the pedestal or the Front Panel Cover of the TV. Doing so may cause these parts to break off.



To carry the TV, hold it by the top and bottom of the panel.

If you carry the TV in a manner other than specified here, it may drop and a serious injury may result. Be sure to follow the instructions given below.

- Carry the TV with at least two persons.
- Carry the TV holding the upper and bottom frames of the TV as illustrated. Do not carry it holding the speaker units.
- Hold the TV securely when carrying it.
- As the glass surface of the display unit has a special coating, avoid touching the glass surface as much as possible.



Take Precaution during the Installation

To Prevent the TV from Falling

To ensure the safety of children and the TV, keep children away from the TV during installation. Climbing on or pushing the TV or its stand may cause it to fall.

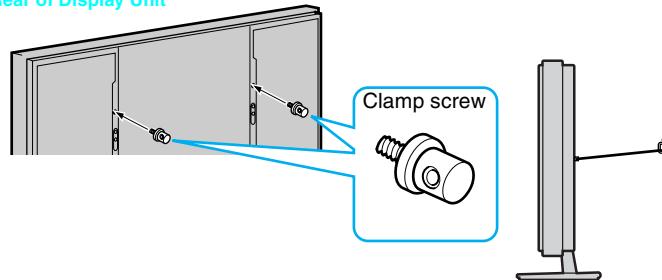
WARNING

Be sure to take measures to prevent the stand from toppling over. If you fail to do so, the TV may topple over and cause injury. Anchor the TV to a wall, pillar, etc., to prevent it from toppling over.

Prepare a commercially available strong rope or chain and wall anchor bracket beforehand.

- After all the necessary connections including other equipment are completed, be sure to attach a sturdy strong rope or chain securely to each clamp screw (not supplied), and attach it to a wall or pillar. (The clamp screw is supplied with the optional Table-Top Stand or Floor Stand.)

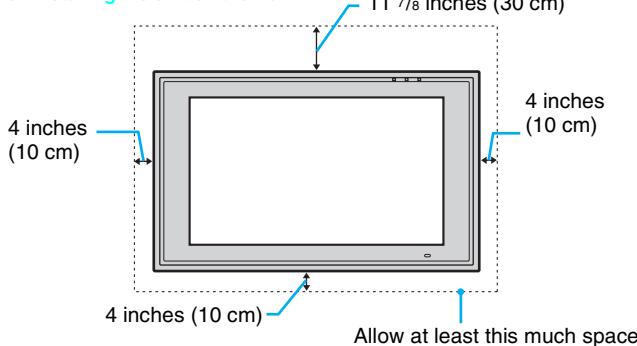
Rear of Display Unit



When Installing Your TV against a Wall

Keep your TV at least 4 inches (10 cm) away from the wall to provide proper ventilation.

When installing the unit on the wall:

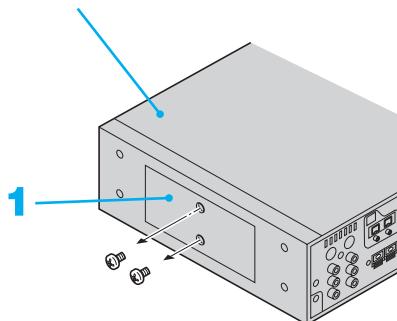


Installing the Media Receiver Unit Vertically

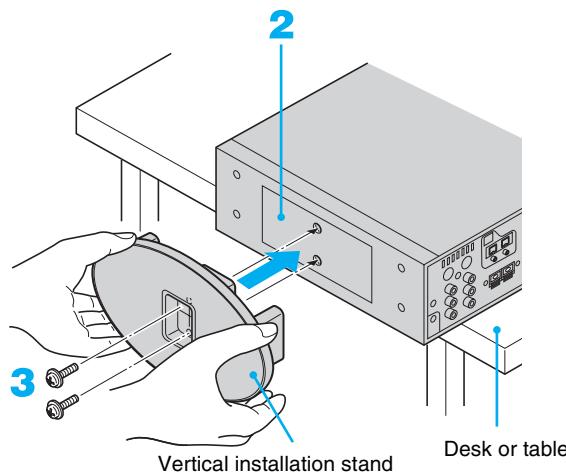
When you install the media receiver unit vertically, use the supplied stand for vertical installation. Attach the stand to the right side of the media receiver unit. When you attach the stand, use the edge of a desk or a table, as shown below.

- 1 Remove the two small screws from the right side of the media receiver unit.

Media receiver unit



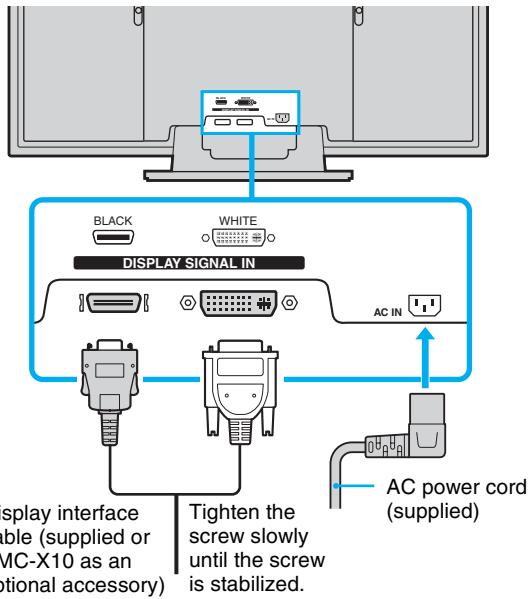
- 2 Match the two screw holes on the stand to those on the media receiver unit.
- 3 Insert the two screws with washers (supplied) into the holes and tighten them securely.



Connecting the TV

⚠ Disconnect all power sources before making any connections.

- 1 Connect the display interface cable (supplied or VMC-X10 as an optional accessory) to the DISPLAY SIGNAL IN jacks, and the AC power cord (supplied) to the AC IN jack of the unit.



⚠ Do not tighten the screws too much. It may damage the screws.

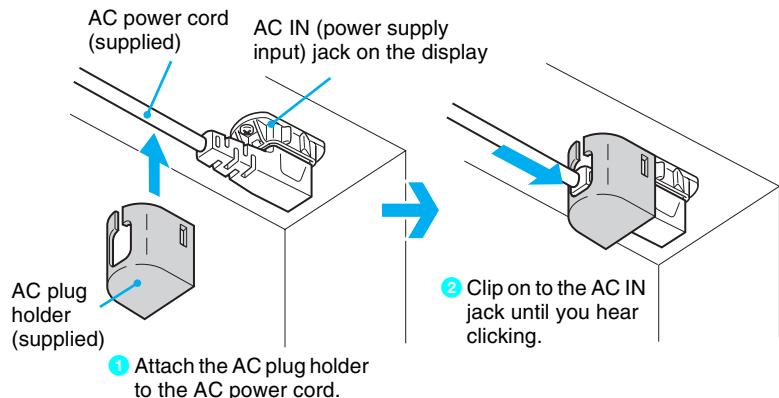
⚠ Insert the connector until you hear a click. (Both sides of the connector should be held securely by the clips.)

After connecting, make sure the connectors are firmly plugged in and can not easily be pulled out.

⚠ Refer to the optional accessory's instruction manual for proper cable installation.

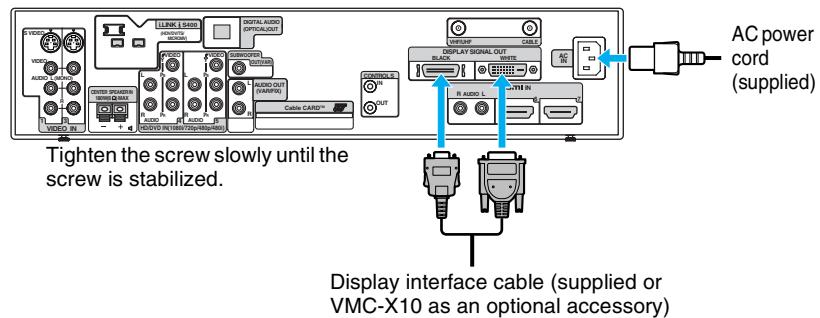
⚠ If you wish to install the media receiver unit and the display unit away from each other, use an optional display cable, VMC-X10, which allows you to place the two units up to 10 meters away from each other.

- 2 Secure the AC plug holder to the display's AC IN jack.



When you unplug the AC power cord, drag the holder down by pushing both sides of the holder, then pull out the plug.

- 3 Install the display unit using an optional stand or rack unit. For details, refer to the operating instructions supplied with your stand or rack unit.
- 4 Connect the other end of the display interface cable to the media receiver unit's DISPLAY SIGNAL OUT jacks, and connect the AC power cord to the media receiver unit's AC IN jack.



- 5 After making all connections, connect the AC power cords to wall outlets.

Be sure to use the supplied AC power cords.
 When connecting equipment, do not connect the AC power cords to wall outlets until you have completed making all connections.
 Do not tighten the screws too much. It may damage the screws.
 Do not use damaged cables, such as cables with deformed connectors.
 This unit may fall and cause injury if accidentally knocked or pulled by the connected cable. Handle the display interface cable with care.

Basic Connections: Connecting a Cable or Antenna

The way in which you connect your TV will vary, depending on how your home receives a signal (cable box and/or antenna) and whether or not you plan to connect a VCR.

If You Are Connecting	See Page
Cable or Antenna	31
<input type="checkbox"/> No cable box or VCR	
Cable and Antenna	32
<input type="checkbox"/> No cable box or VCR	
Cable Box and Antenna	33
<input type="checkbox"/> Cable box unscrambles only some channels (usually premium channels)	
<input type="checkbox"/> No VCR	
Cable Box	34
<input type="checkbox"/> Cable box unscrambles all channels	
<input type="checkbox"/> No VCR	

If you are connecting a VCR

- See the connections described on pages 37 and 38.

Cable or Antenna

For best results, use one of the following connections if you are connecting a cable or an antenna and you:

- Do not need a cable box to unscramble channels. (If you have a cable box, see pages 33 and 34.)
- Do not intend to connect a VCR. (If you have a VCR, see pages 37 and 38.)

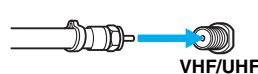
The connection you choose depends on the cable type you have in your home, as described below.

75-ohm coaxial cable (usually found in newer homes)

Cable Type Connect As Shown

VHF Only or
combined
VHF/UHF

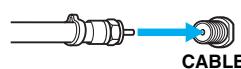
75-ohm coaxial
cable



Rear of Media
Receiver Unit
VHF/UHF

Cable

75-ohm coaxial
cable



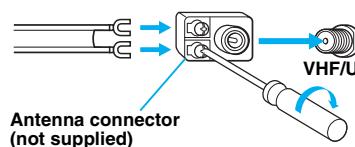
Rear of Media
Receiver Unit
CABLE

300-ohm twin lead cable (usually found in older homes)

Cable Type Connect As Shown

VHF Only or
UHF Only or
combined
VHF/UHF

300-ohm twin lead cable



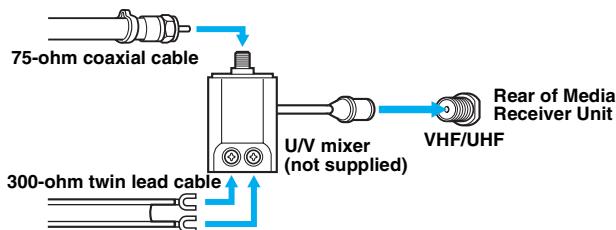
Antenna connector
(not supplied)

Rear of Media Receiver Unit
VHF/UHF

75-ohm coaxial and 300-ohm twin lead cable (found in some homes)

Cable Type Connect As Shown

VHF and UHF



Cable and Antenna

For best results, use this connection if you:

- Have a cable and an antenna.

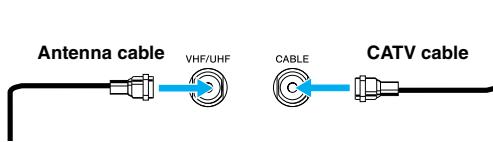
(This is convenient if you are using a separate rooftop antenna to receive additional channels that are not provided by your cable TV company.)

- Do not have a cable box or VCR. (If you have a cable box, see pages 33 and 34. If you have a VCR, see pages 37 and 38.)

Antenna and CATV cable

Cable Type Connect As Shown

Cable TV
(CATV) and
Antenna



Notes on Using This Connection

To Do This ...	Do This ...
Switch the Media Receiver Unit's input between the cable and antenna	Press ANT to switch back and forth between the Media Receiver Unit's VHF/UHF and CABLE inputs.

- ⚡ For optimum picture quality, a 75-ohm coaxial cable antenna connection is highly recommended. Radio waves and other interference can easily affect a 300-ohm twin lead cable, resulting in signal deterioration. If you use a 300-ohm twin lead cable, keep it as far away as possible from the TV.
- ⚡ Do not use an indoor antenna, which is especially susceptible to radio noise.

Cable Box and Antenna

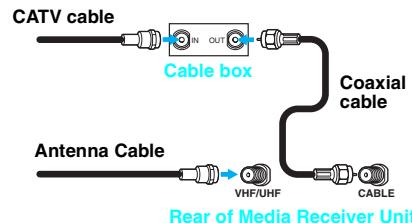
Before connecting a cable box, see "Using CableCARD" on page 57.

For best results, use this connection if:

- Your cable company scrambles some channels, such as premium channels (which requires you to use a cable box), but does not scramble all channels.
- You do not have a VCR. (If you have a VCR, see pages 37 and 38.)

With this connection you can:

- Use the TV's remote control to change channels coming through the cable box to the Media Receiver Unit's cable input. (You must first program the remote control for your specific cable box; see "Programming the Remote Control" on page 64.)
- Use the TV's remote control to change channels coming directly into the Media Receiver Unit's VHF/UHF input jack.



☞ This connection will allow you to take advantage of dual picture features such as Twin View, Freeze, etc.

Notes on Using This Connection

To Do This ...	Do This ...
Use the cable box	Tune the TV to the channel the cable box is set to (usually channel 3 or 4) and then use the cable box to switch channels.
Set up the TV remote control to operate the cable box	Program the remote control. See "Programming the Remote Control" on page 64.
Activate the remote control to operate the cable box	Press FUNCTION repeatedly until the SAT/CABLE indicator lights up.
Prevent the accidental switching of TV channels	When using the cable box, the TV must stay on the channel the cable box is set to (usually channel 3 or 4). You can use the TV's Channel Fix feature to lock in a specific channel. For details, see "Using the Channel Menu" on page 119.
Switch the TV's input between the cable box and cable	Press ANT to switch back and forth between the TV's VHF/UHF (scrambled channels) and CABLE (unscrambled) inputs.

Cable Box

Before connecting a cable box, see "Using CableCARD" on page 57.

For best results, use this connection if:

- Your cable company scrambles all channels, which requires you to use a cable box.
- You do not have a VCR. (If you have a VCR, see pages 37 and 38.)

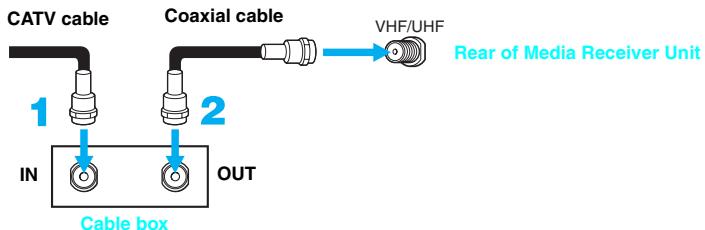
With this connection you can:

- Use the TV's remote control to change channels coming through the cable box to the TV's VHF/UHF jack. (You must first program the remote control for your specific cable box.)

 With this connection, all channels come into the TV through your cable box and only one unscrambled signal is sent to the TV, so you cannot use the dual picture features. If some of your channels are scrambled, but others are not, consider using the "Cable Box and Antenna" connection on page 33 instead.

To connect the cable box

- 1** Connect the CATV cable to the cable box's input jack.
- 2** Use a coaxial cable to connect the cable box's output jack to the TV's VHF/UHF jack.
- 3** Run Auto Program, as described in "Setting Up the TV Channel List" on page 59.



Notes on Using This Connection

To do this...	Do This ...
Use the cable box	Tune the TV to the channel the cable box is set to (usually channel 3 or 4) and then use the cable box to switch channels.
Set up the TV remote control to operate the cable box	Program the remote control. See "Programming the Remote Control" on page 64.
Activate the remote control to operate the cable box	Press FUNCTION repeatedly until the SAT/CABLE indicator lights up.
Prevent the accidental switching of TV channels	When using the cable box, the TV must stay on the channel the cable box is set to (usually channel 3 or 4). You can use the TV's Channel Fix feature to lock in a specific channel. For details, see "Using the Channel Menu" on page 119.

Connecting Optional Equipment

Use the directions in this section to connect the following optional equipment:

If You Are Connecting	See Page
Making Video Connections	36
About Using S VIDEO	36
VCR and Cable	37
VCR and Cable Box	38
Two VCRs for Tape Editing	40
Satellite Receiver	41
Satellite Receiver with a VCR and Cable	42
DVD Player with Component Video Connectors	44
DVD Player with S VIDEO and Audio Connectors	45
Personal Computer	46
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Digital Cable Box	49
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Digital Satellite Receiver with an HDMI Connector	51
DVD Player or Digital Satellite Receiver via an AV Receiver with CENTER SPEAKER IN Terminals	53
Connecting a Device with an Optical IN Connector	55
Using the CONTROL S Feature	56
Using CableCARD	57

Making Video Connections

Your TV includes several types of video inputs. When connecting your TV, use the inputs that are available on your components that provide the best video performance, as described below.

Connector Type	Separate audio connection required
HDMI (High-Definition Multimedia Interface)	No
Component video	Yes
S VIDEO	 
Composite video	
RF/Coaxial	No

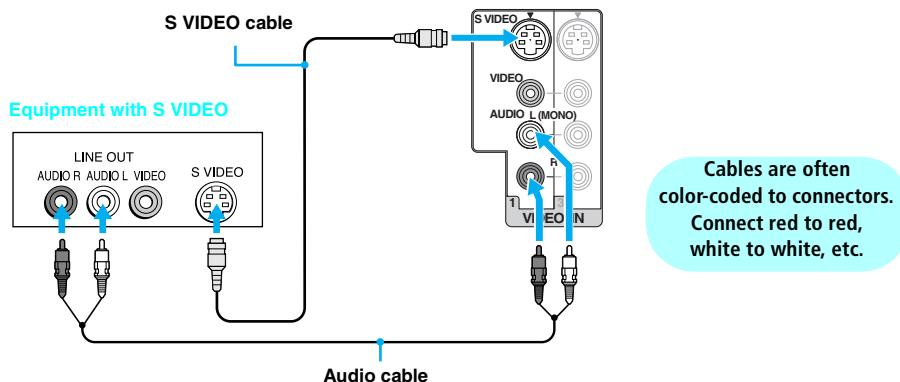
About Using S VIDEO



If the optional equipment you are connecting has an S VIDEO jack (shown at left), you can use an S VIDEO cable for improved picture quality (compared to an A/V cable). Because S VIDEO carries only the video signal, you also need to connect audio cables for sound, as shown below.

Example of an S VIDEO Connection

Rear of Media Receiver Unit



VCR and Cable

Use this hookup if:

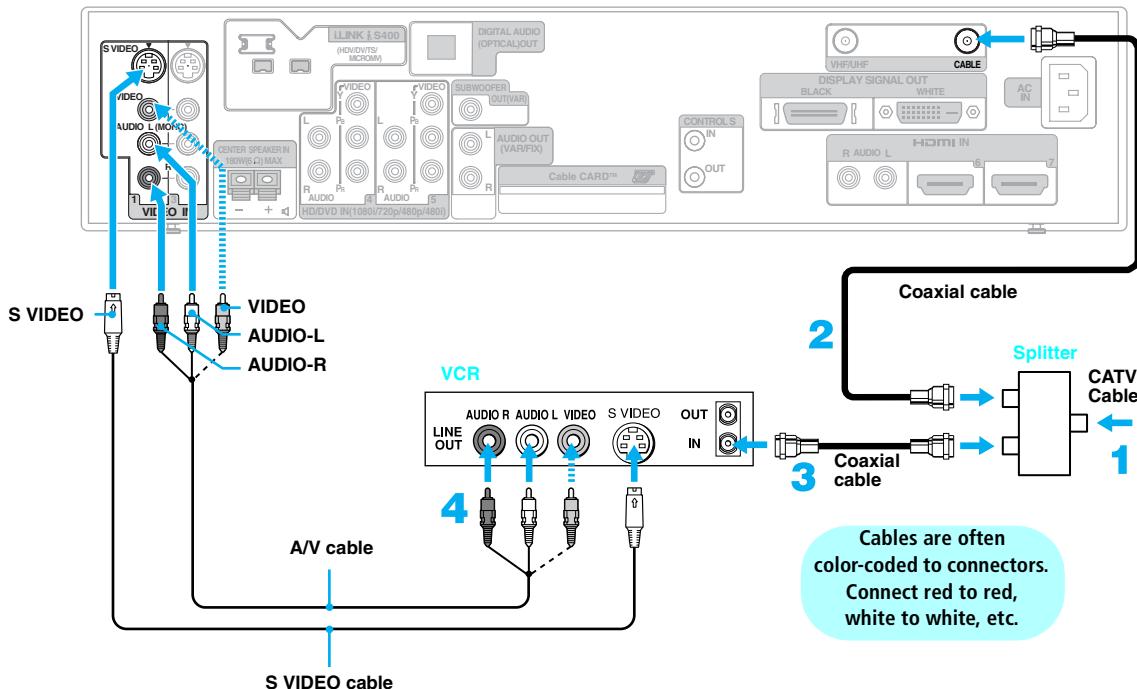
You have cable TV that does not require a cable box.

Disconnect all power sources before making any connections.

- 1 Connect the CATV cable to the single (input) jack of the splitter.
- 2 Using a coaxial cable, connect one of the output jack of the splitter to the TV's CABLE jack.
- 3 Using a coaxial cable, connect the splitter's other output jack to the VCR's input jack.
- 4 Using A/V and S VIDEO cables, connect the VCR's AUDIO and S VIDEO OUT jacks to the TV's AUDIO and S VIDEO IN jacks.

 If your VCR is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.

Rear of Media Receiver Unit



VCR and Cable Box

Before connecting a cable box, see "Using CableCARD" on page 57.

Use this hookup if:

- Your cable TV company scrambles some channels, but not all of them (pay channels vs. regular cable channels) and you need to use a cable box.
- You want to enjoy the Twin View feature.

With this setup you can:

- Use the TV's remote control to change channels on your cable box when the signal is scrambled. To program your Sony remote control to operate your cable box, see "Programming the Remote Control" on page 64.
- Use the TV's remote control to change channels on your TV when the signal is not scrambled. Your TV's tuner provides a better signal than the cable box.
- Use the Twin View feature. (When all channels are routed through your cable box, only one signal is sent to the TV, so you cannot use the Twin View feature.)

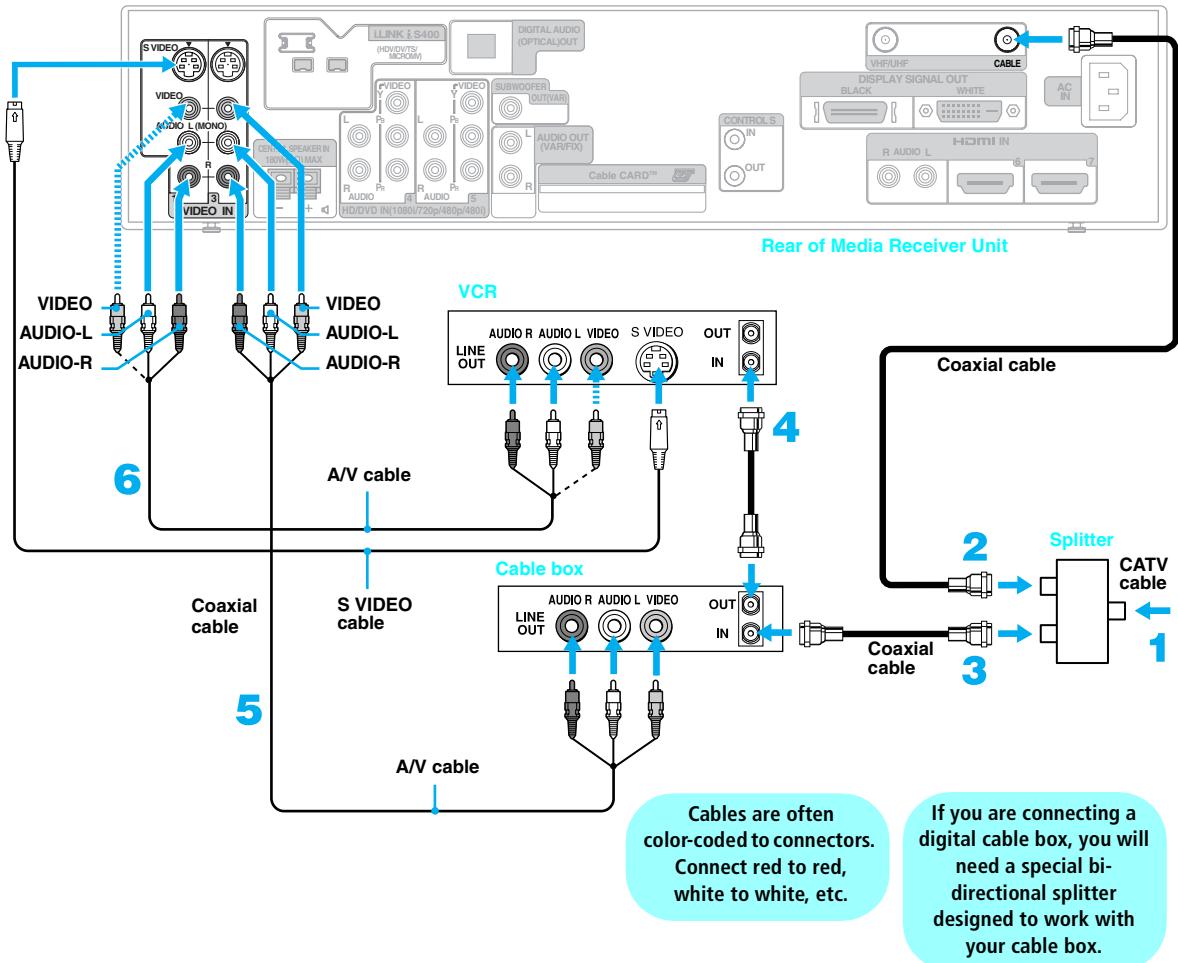
Disconnect all power sources before making any connections.

- 1** Connect the CATV cable to the single (input) jack of the splitter.
- 2** Using a coaxial cable, connect one of the splitter's two output jacks to the TV's CABLE jack.
- 3** Using a coaxial cable, connect the splitter's other output jack to the cable box's input jack.
- 4** Using a coaxial cable, connect the cable box's output jack to the VCR's RF input jack.
- 5** Using an A/V cable, connect the cable box's A/V output jacks to the TV's A/V input jacks.
- 6** Using an A/V and S VIDEO cables, connect the VCR's AUDIO and S VIDEO OUT jacks to the TV's AUDIO and S VIDEO IN input jacks.

 If your VCR is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.

- 7** Run Initial Setup, as described in "Setting Up the TV Channel List" on page 59.

 To view scrambled channels, tune the TV to the channel the cable box is set to (usually channel 3 or 4) and then use the cable box to switch channels.



Two VCRs for Tape Editing



Using
S VIDEO jacks?
See page 36.

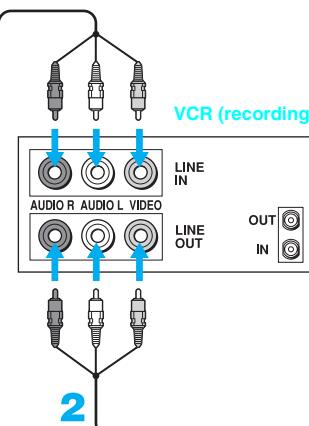
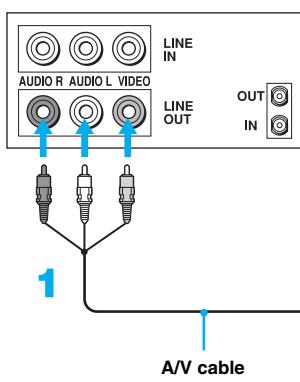
If you connect two VCRs, you can record from one VCR to the other while using your TV to monitor what is being recorded.

Disconnect all power sources before making any connections.

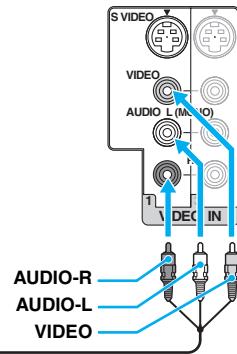
- 1 Using an A/V cable, connect the playback VCR's AUDIO and VIDEO OUT jacks to the recording VCR's AUDIO and VIDEO IN jacks.
- 2 Using an A/V cable, connect the recording VCR's AUDIO and VIDEO OUT jacks to the TV's AUDIO and VIDEO IN jacks.

Cables are often
color-coded to connectors.
Connect red to red,
white to white, etc.

VCR (playback)



Rear of Media Receiver Unit



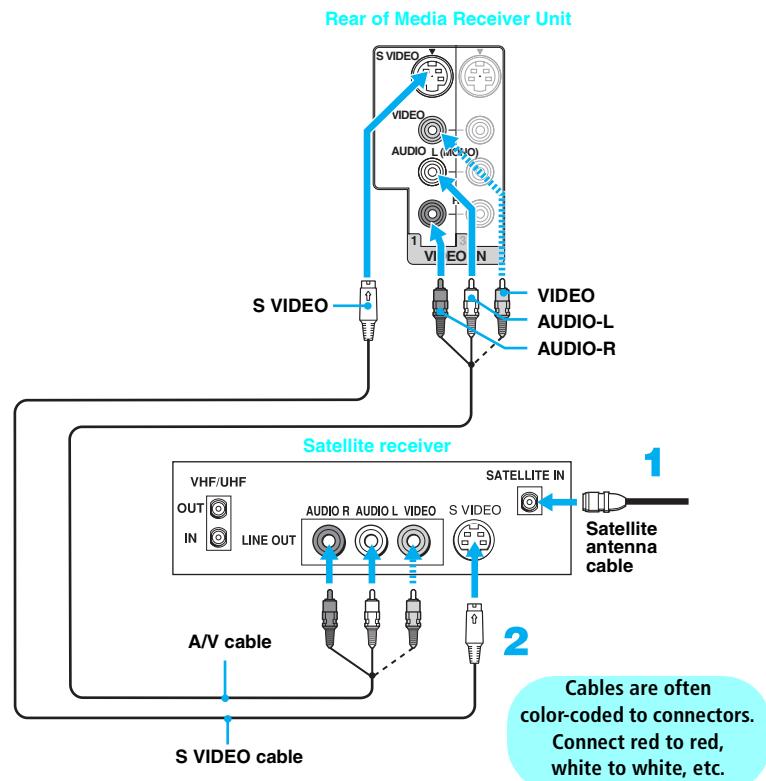
- To perform tape editing, set the TV to the video input intended for playback by pressing TV/VIDEO on the remote control.
- You may need to change the video input on your VCR. See your VCR's operating manual for instructions.
- If your VCRs have S VIDEO jacks: For best picture quality, use an S VIDEO connection instead of the yellow video cable on your combined A/V cable. Using an S VIDEO cable, connect the playback VCR's S VIDEO OUT jack to the recording VCR's S VIDEO IN jack. S VIDEO does not provide audio, so audio cables must be connected to provide sound.
- You cannot record signals from equipment connected to the YP_BP_R input.

Satellite Receiver

Disconnect all power sources before making any connections.

- 1 Connect the satellite antenna cable to the satellite receiver's SATELLITE IN jack.
- 2 Using A/V and S VIDEO cables, connect the satellite receiver's AUDIO and S VIDEO OUT jacks to the TV's AUDIO and S VIDEO IN jacks.

 If your satellite receiver is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.



Satellite Receiver with a VCR and Cable

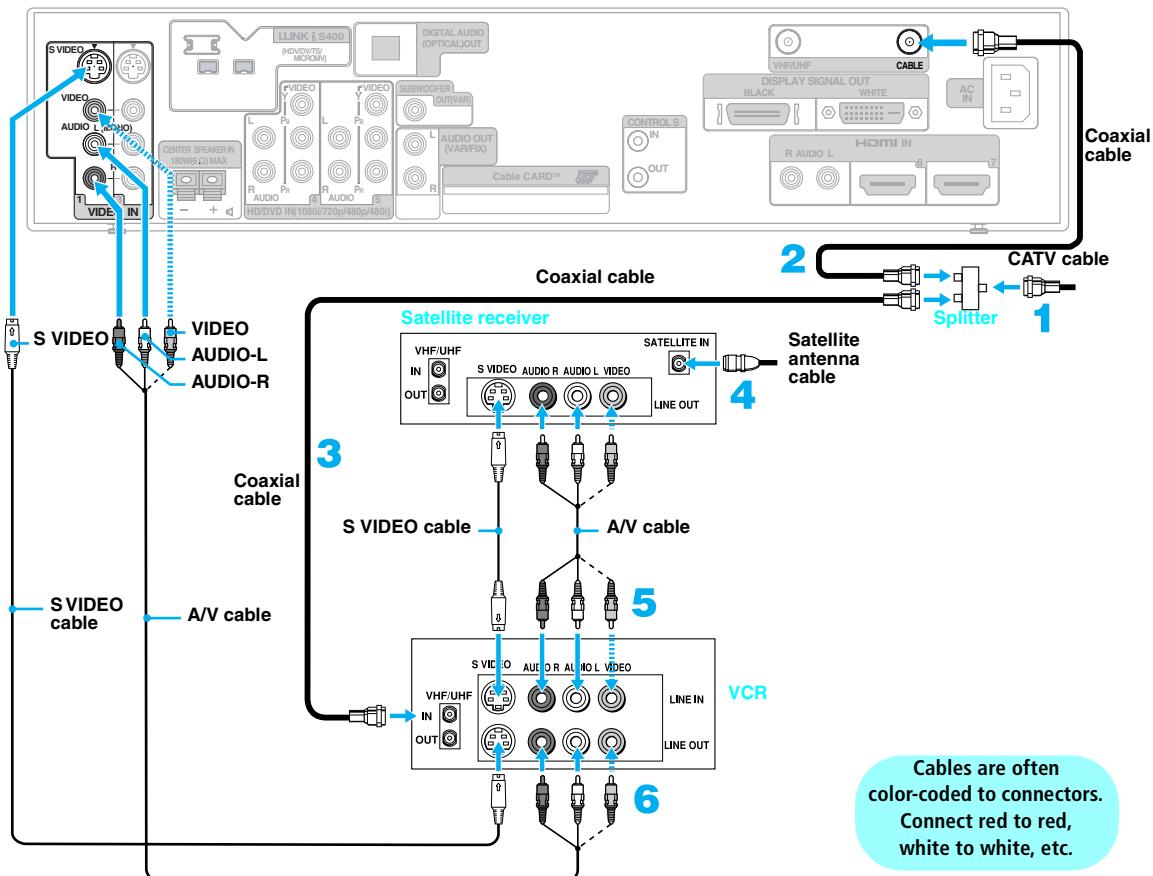
Disconnect all power sources before making any connections.

- 1** Connect the CATV cable to the single (input) jack of the splitter.
- 2** Using a coaxial cable, connect one of the splitter's two output jacks to the TV's CABLE jack.
- 3** Using a coaxial cable, connect the splitter's other output jack to the VCR's VHF/UHF IN jack.
- 4** Connect the satellite antenna cable to the satellite receiver's SATELLITE IN jack.
- 5** Using A/V and S VIDEO cables, connect the satellite receiver's AUDIO and S VIDEO OUT jacks to the VCR's AUDIO and S VIDEO IN jacks.
- 6** Using A/V and S VIDEO cables, connect the VCR's AUDIO and S VIDEO OUT jacks to the TV's AUDIO and S VIDEO IN jacks.

 If your VCR or satellite receiver is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.

- 7** Run Initial Setup, as described in "Setting Up the TV Channel List" on page 59.

Rear of Media Receiver Unit



Cables are often color-coded to connectors. Connect red to red, white to white, etc.

 Be sure your VCR's video input is set correctly. See your VCR's operating manual for instructions.

DVD Player with Component Video Connectors

Use this hookup if:

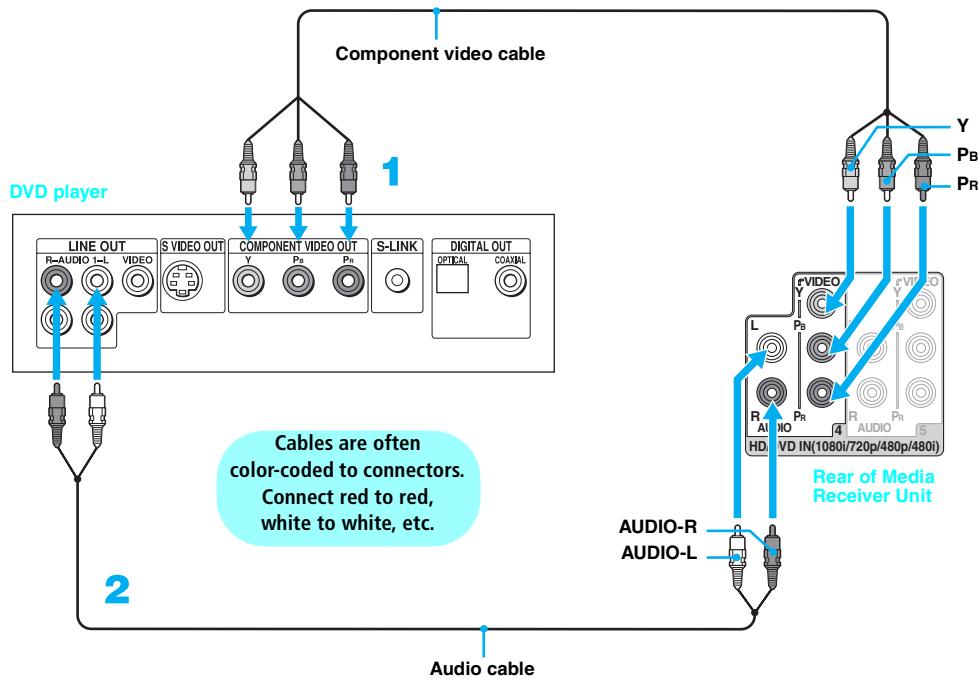
- Your DVD player has component (YPbPr) jacks.

Disconnect all power sources before making any connections.

- 1 Using a component video cable, connect the DVD player's YPbPr jacks to the TV's YPbPr jacks. Use the HD/DVD IN 4 or 5 input.

 The YPbPr jacks on your DVD player are sometimes labeled YCbCr, or Y, B-Y and R-Y. If so, connect the cables to like colors.

- 2 Using an audio cable, connect the DVD player's AUDIO OUT jacks to the TV's AUDIO IN jacks. Be sure to use the same row of inputs that you used for the video connection (HD/DVD IN 4 or 5).



 To take advantage of the Wide Mode feature, set the DVD player's aspect ratio to 16:9. For details, refer to the operating instructions supplied with your DVD player.

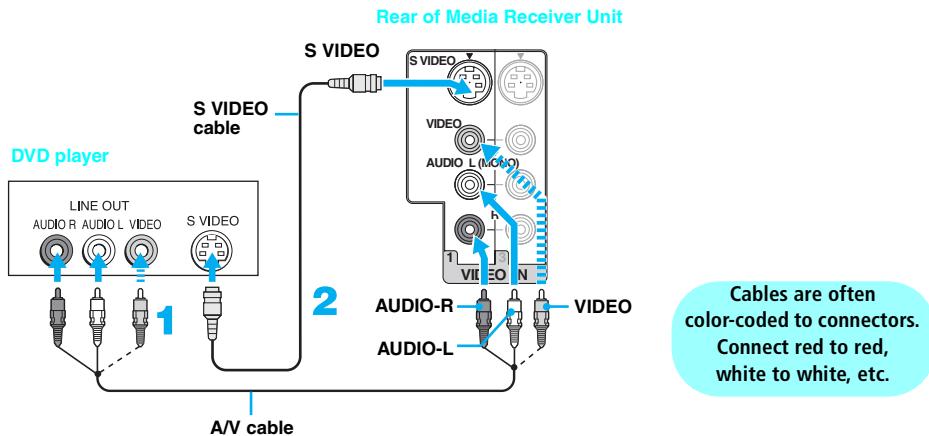
DVD Player with S VIDEO and Audio Connectors

Use this hookup if:

- Your DVD player does not have component (YPbPr) jacks.

Disconnect all power sources before making any connections.

- 1 Using an A/V cable, connect the DVD player's AUDIO OUT jacks to the TV's AUDIO IN jacks.
- 2 Using an S VIDEO cable, connect the DVD player's S VIDEO jack to the TV's S VIDEO jack.



- ☞ If your DVD player is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.
- ☞ To watch the DVD player, press TV/VIDEO repeatedly to select the DVD input (VIDEO 1 in the illustration). If you have a non-Sony DVD player, and want to set up the TV remote control to operate the DVD player you must program the remote control. See "Programming the Remote Control" on page 64.
- ☞ To control DVD functions with the TV remote control, see "Operating a DVD Player" on page 67.
- ☞ To label video inputs to easily identify equipment connected to the TV, see the instructions for setting up Video Labels on page 125.

Personal Computer

When connecting to an Apple Macintosh computer, use the display output connecting cord supplied with your Macintosh computer to connect to the VIDEO 8 (PC) IN (RGB) terminal of the TV. Use an optional adapter if necessary. If you use an adapter, first connect the adapter to your computer, then connect the D-Sub pin signal cable.

Depending on the PC, you may find a flicker or noisy picture on the screen when inputting corresponding signal. In that case, adjust Phase and Pitch in the PC Setup options.

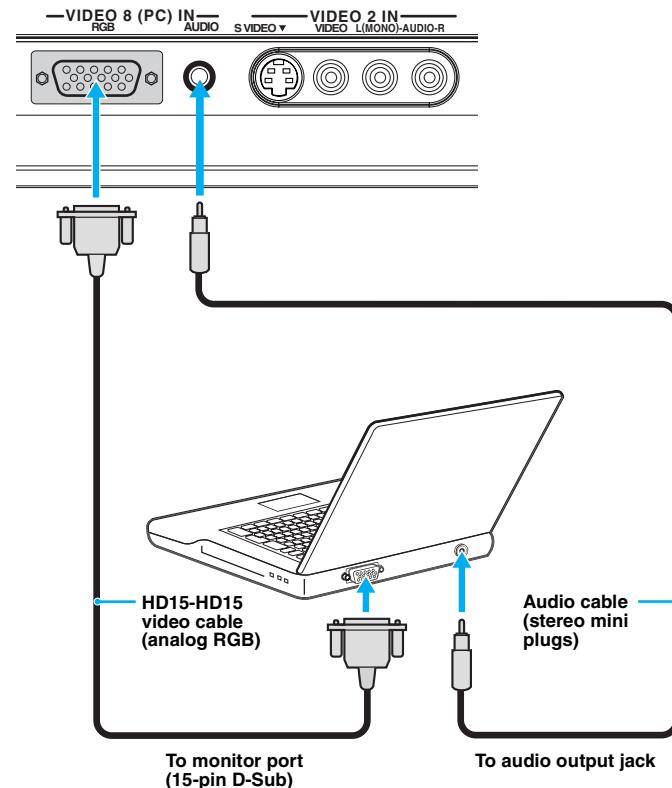
You can connect a personal computer to your TV to display the PC screen on the large screen of the TV and output the sound to the TV's speakers.

Disconnect all power sources before making any connections.

Using an HD15-HD15 video cable (analog RGB), connect the VIDEO 8 (PC) IN RGB jack on the front panel of the media receiver unit to the PC's monitor port (15-pin D-Sub). To output the PC's sound to the TV speakers, connect the VIDEO 8 (PC) IN AUDIO jack on the media receiver unit to the PC's audio output jack, using an audio cable with stereo mini plugs.

For details on using the PC Input feature, see "Using the PC Input" on page 81.

Front of Media Receiver Unit



Camcorder

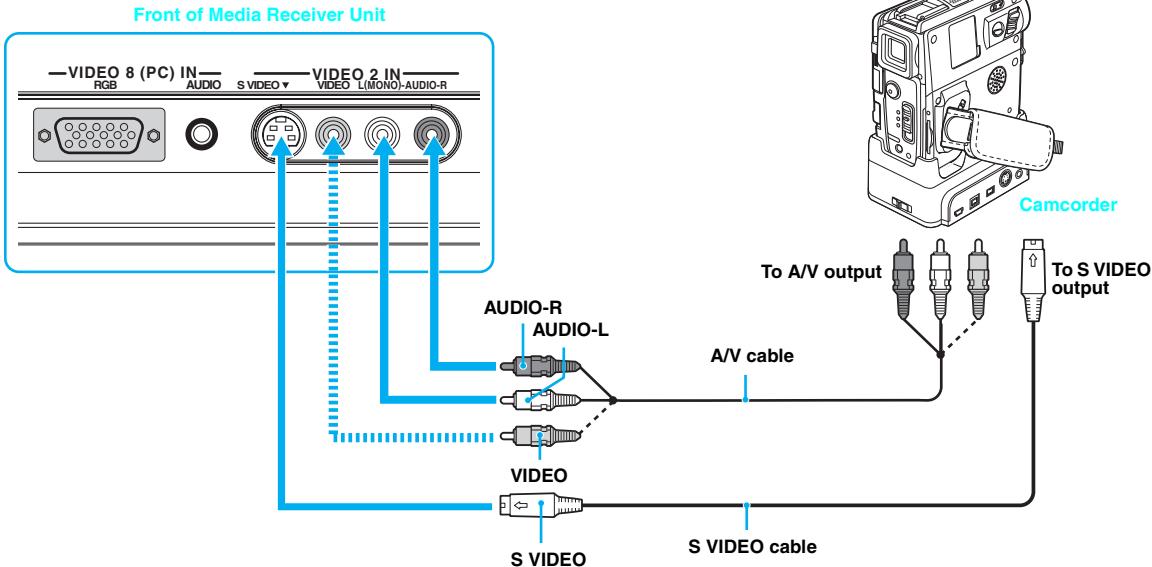
Disconnect all power sources before making any connections.

For easy connection of the camcorder, the TV has front audio and video inputs (shown below). However, if you prefer, you can also connect the camcorder to the TV's rear AUDIO and S VIDEO IN jacks.

Using A/V and S VIDEO cables, connect the camcorder's audio and S VIDEO OUT jacks to the TV's AUDIO and S VIDEO IN jacks.

- ☞ If your camcorder is equipped with an i.LINK jack, you can connect it using i.LINK instead of the A/V inputs. See "Using i.LINK" on page 101.
- ☞ If you have a mono camcorder, connect its left audio output to the TV's AUDIO L (MONO) jack.
- ☞ If your camcorder is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.

Cables are often color-coded to connectors.
Connect red to red,
white to white, etc.

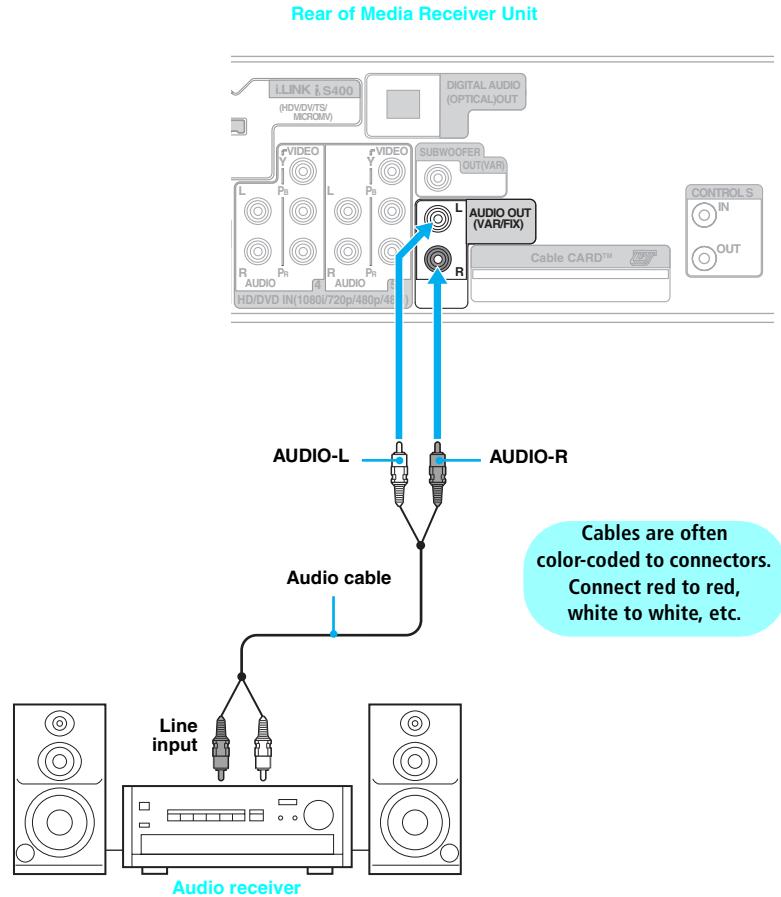


Audio Receiver

For improved sound quality, you may want to play the TV's audio through your stereo system (see page 115).

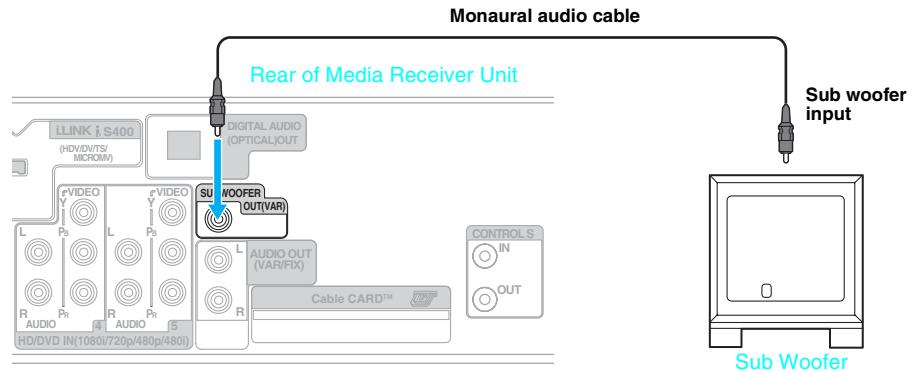
Disconnect all power sources before making any connections.

Using an audio cable, connect the TV's AUDIO OUT (VAR/FIX) jacks to the audio receiver's audio LINE IN jacks.



Sub Woofer

Use a monaural audio cable to connect the TV's SUB WOOFER OUT jack to the sub woofer's input jack.

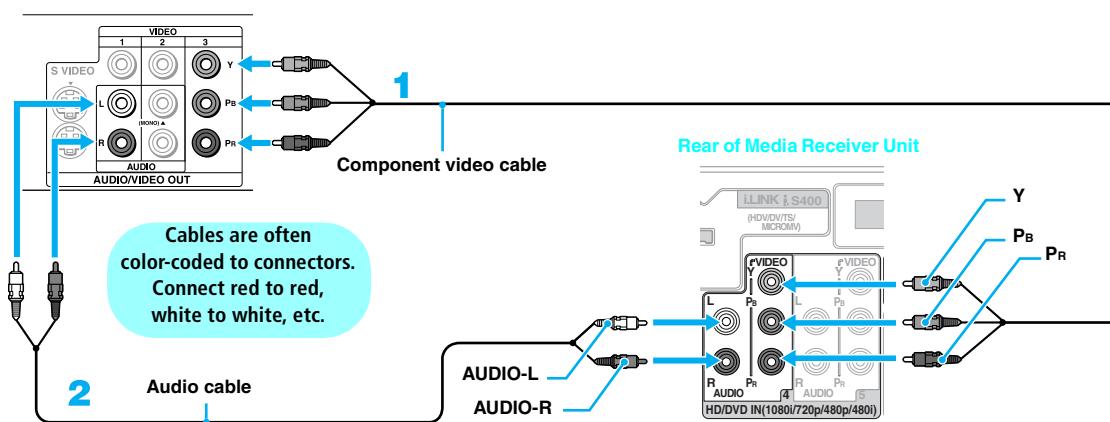


Digital Cable Box

Disconnect all power sources before making any connections.

- 1 Using a component video cable, connect the digital cable box's Y _{Pb}_{Pr} jacks to the TV's Y _{Pb}_{Pr} jacks. Use the HD/DVD IN 4 or 5 input.
 - Component video (Y _{Pb}_{Pr}) connection is necessary to view 480p, 720p, and 1080i formats. Note that this TV displays all format types of picture in a resolution of 1920 dots x 1080 lines.
- 2 Using an audio cable, connect the digital cable box's AUDIO OUT jacks to the TV's AUDIO IN jacks.
 - The Y _{Pb}_{Pr} jacks do not provide audio, so audio cables must be connected to provide sound.

Digital cable box



Digital Satellite Receiver

Disconnect all power sources before making any connections.

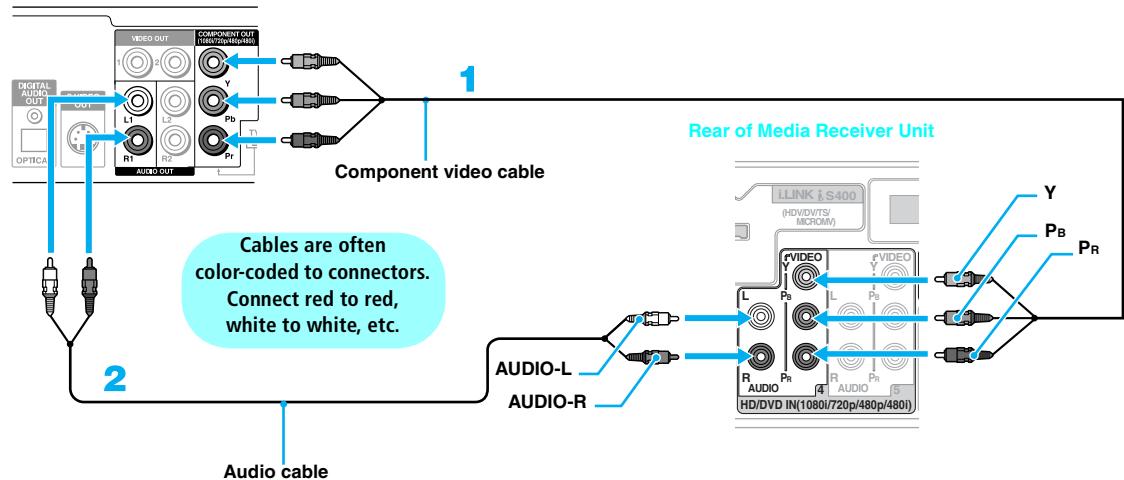
- 1 Using a component video cable, connect the digital satellite receiver's YPbPr jacks to the TV's YPbPr jacks. Use the HD/DVD IN 4 or 5 input.

 Component video (YPbPr) connection is necessary to view 480p, 720p, and 1080i formats. Note that this TV displays all format types of picture in a resolution of 1920 dots x 1080 lines.

- 2 Using an audio cable, connect the digital satellite receiver's AUDIO OUT jacks to the TV's AUDIO IN jacks.

 The YPbPr jacks do not provide audio, so audio cables must be connected to provide sound.

Digital satellite receiver



Digital Satellite Receiver with an HDMI Connector

 The HDMI jack provides both video and audio signals, so it is not necessary to connect an audio cable.

 If the display interface cable is already in place, it may be difficult to insert an HDMI cable into the HDMI jack. We recommend that you reserve enough space for the HDMI connection before connecting the display interface cable.

Use this hookup if:

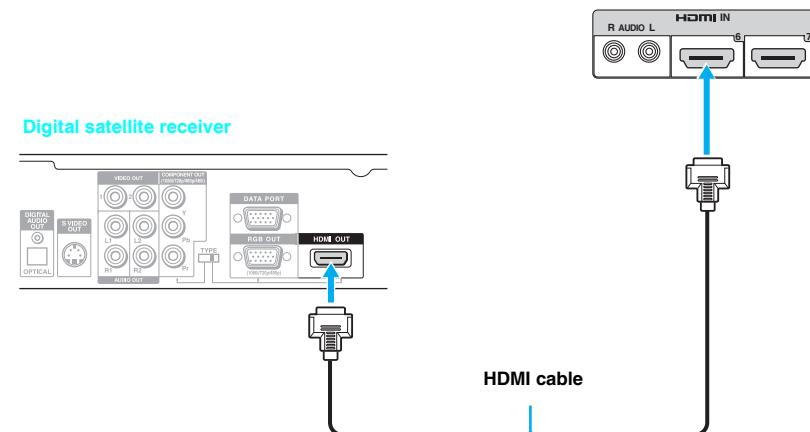
- Your digital satellite receiver has a High-Definition Multimedia Interface (HDMI).

Disconnect all power sources before making any connections.

Using an HDMI cable (not supplied), connect the digital satellite receiver's HDMI OUT jack to the TV's HDMI IN jack.

Use the HDMI IN 6 or 7 input.

Rear of Media Receiver Unit



When connecting to the Digital Satellite Receiver's DVI-HDTV connector

If you are connecting to a digital satellite receiver with DVI-HDTV output, you can connect to the TV's HDMI IN jack by using an HDMI-DVI cable.

- 1 Using an HDMI-DVI cable, connect the digital satellite receiver's DVI-HDTV OUT jack to the TV's HDMI IN jack.

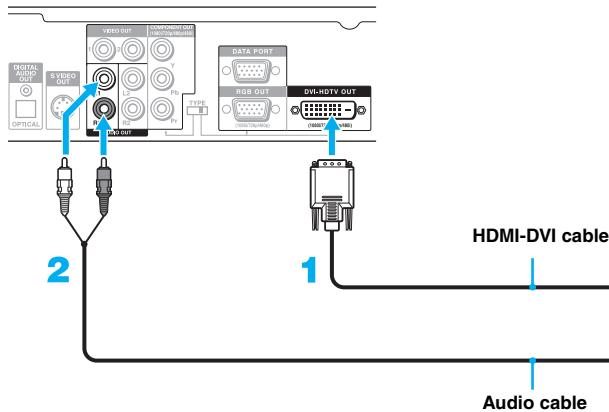
Use the HDMI IN 6 input.

- 2 Using an audio cable, connect the digital satellite receiver's AUDIO OUT jacks to the TV's AUDIO IN jacks.

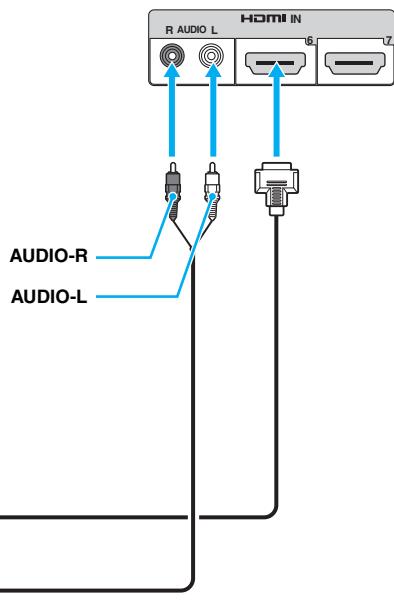
- ☞ The DVI-HDTV VIDEO jack does not provide audio, so audio cables must be connected to provide sound when an HDMI-DVI cable is used.
- ☞ Use only the HDMI IN 6 input for this connection. If the HDMI IN 7 input is used for this connection, the AUDIO IN jacks in HDMI IN 6 become unavailable.

Cables are often color-coded to connectors.
Connect red to red,
white to white, etc.

Digital satellite receiver



Rear of Media Receiver Unit

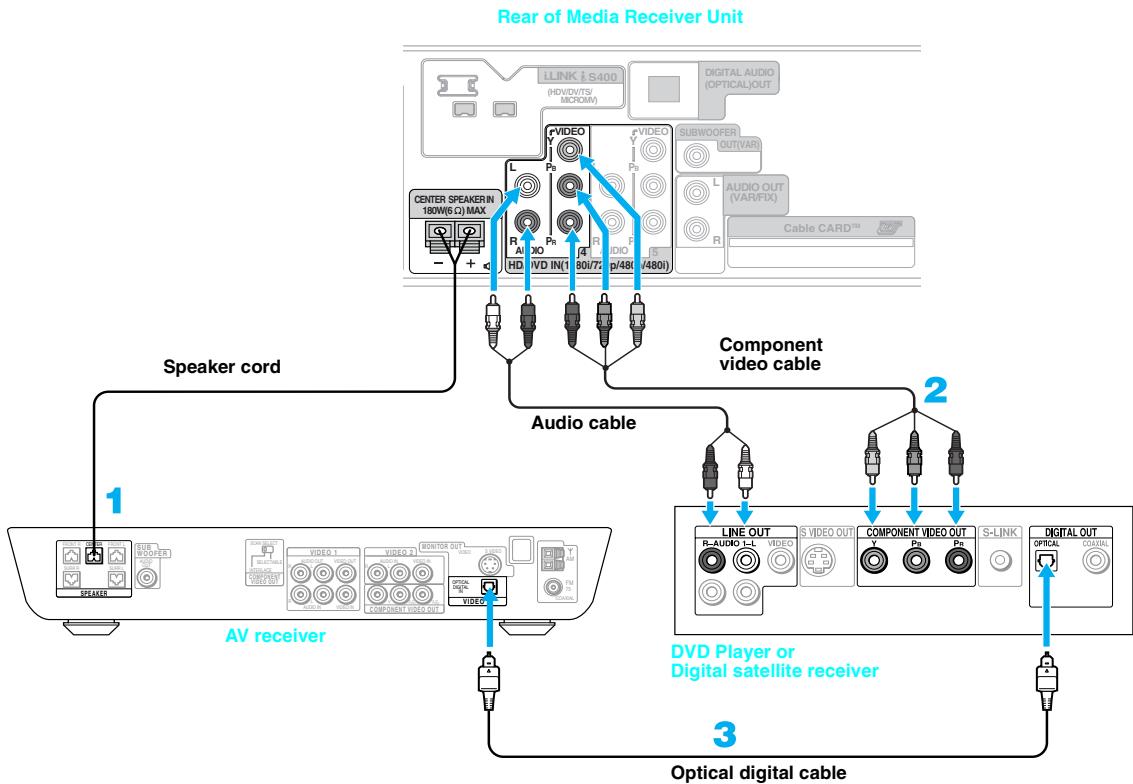


**DVD Player or
Digital Satellite
Receiver via an AV
Receiver with
CENTER SPEAKER
IN Terminals**

Use this connection if you have a digital audio device that is PCM/Dolby Digital compatible, such as an AV receiver with a Dolby Pro Logic system decoder.

Disconnect all power sources before making any connections.

- 1** Using a speaker cord, connect the TV's CENTER SPEAKER IN terminals to the AV receiver's CENTER SPEAKER OUT terminals.
- 2** Using a component video cable, connect the DVD player or digital satellite receiver's YPbPr jacks to the YPbPr jacks on the TV. Use the HD/DVD IN 4 connections. Using an audio cable, connect the DVD player or digital satellite receiver's AUDIO OUT to the TV's AUDIO IN jacks.
 - ☞ If your DVD player does not have component (YPbPr) jacks, you can connect the DVD player with A/V connectors. Use the connection described on page 45.
 - ☞ If your digital satellite receiver has an HDMI connector, use the connection described on page 51 for best picture quality.
- 3** Using an optical digital cable, connect the DVD player or digital satellite receiver's OPTICAL OUT jack to the AV receiver's OPTICAL IN jack.



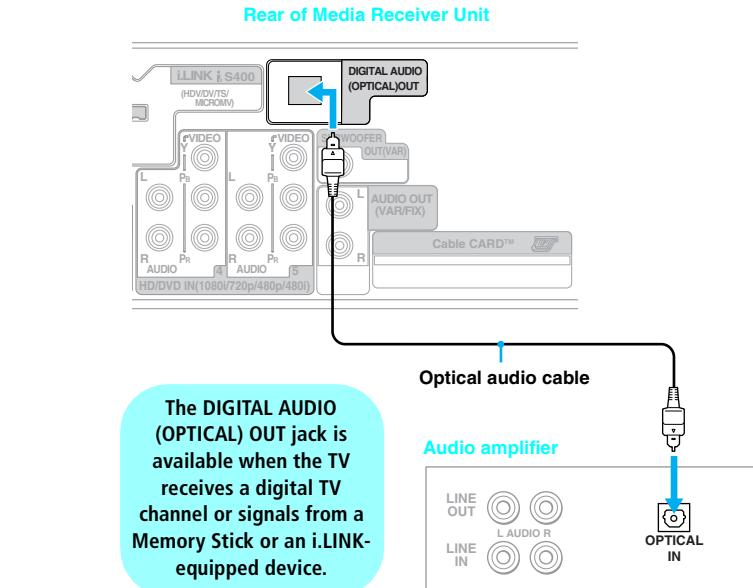
When using the TV's speakers as the center speaker

Using **Center Speaker In** in the Audio menu, select the video input for which you want to use the TV's speakers as the center speaker and set it to **On**.

Connecting a Device with an Optical IN Connector

You can use the TV's DIGITAL AUDIO (OPTICAL) OUT jack to connect a digital audio device that is PCM/Dolby digital compatible, such as an audio amplifier.

Using an optical audio cable, connect the device's OPTICAL IN jack to the TV's DIGITAL AUDIO (OPTICAL) OUT jack.

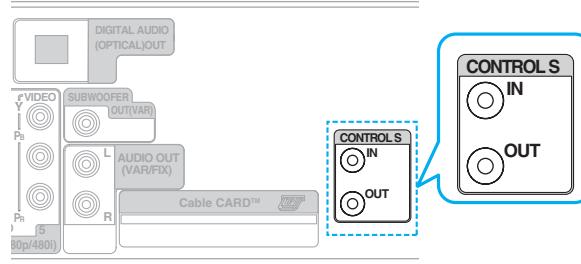


☞ You should also connect the TV's analog audio output jacks to the amplifier's analog audio input jacks so that the amplifier can output audio for analog channels. For details, see page 48.

Using the CONTROL S Feature

CONTROL S allows you to control your TV system and other Sony equipment with one remote control. In addition to allowing you to control multiple devices with one remote control, the CONTROL S feature allows you to always point your remote control at your TV, instead of having to point it at the other equipment, which might be hidden or out of direct line of sight.

Rear of Media Receiver Unit



Using CableCARD

CableCARD provides cable subscribers with access to digitally encrypted cable channels — without the need for a set-top box — that will enable you to receive not only standard definition but also high definition television. The CableCARD, which is provided by your cable TV company, is inserted into the TV's rear panel CableCARD slot. After the service is activated with your cable TV company, the card replaces the need for a separate set-top box.

About Using CableCARD

If you are planning to use a separate cable box for digital cable TV services, you may be able to receive programming using this TV with the CableCARD instead — except in the following circumstances:

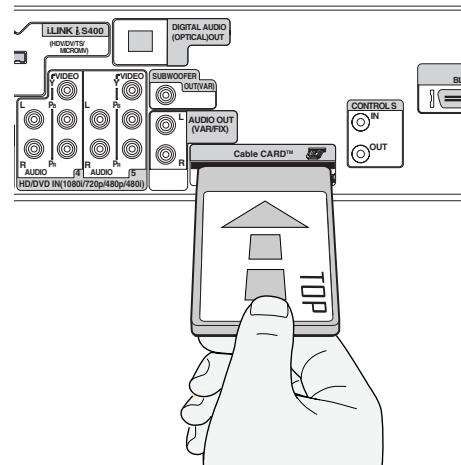
- ❑ Your cable TV company does not provide CableCARD service in your viewing area.
- ❑ You want to access your cable TV company's interactive or advanced features (such as video-on-demand or, in some cases, pay-per-view). At this time, these services require a bidirectional link, which are only available through the use of a separate set-top box. CableCARD is currently a unidirectional device only, and cannot provide these advanced services.

Check with your cable TV company for CableCARD service details, limitations, pricing, and availability, all of which are determined by your cable TV company — not Sony.

Activating CableCARD Service

Before you can use CableCARD service, you need to insert the CableCARD (supplied by your cable TV company) and activate the service, as described below:

- 1 First remove the dummy card by pushing the eject button (see "Removing the CableCARD" on page 58).
 - ☞ If you remove the dummy card without pushing the eject button, the CableCARD cannot be inserted. In that case, insert the dummy card again, remove it by pushing the eject button, and then insert the CableCARD.
- 2 Insert the CableCARD into the TV's CableCARD slot.



(Continued)

 You can also access information about your CableCARD in the Applications Menu (see page 131).

 **CAUTION:** Inserting the CableCARD incorrectly may result in permanent damage to the card and the TV.

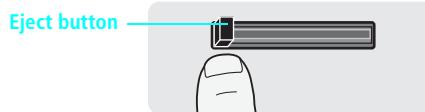
- 3** Gently push the card into the slot until it locks into place.
- 4** After 1-2 minutes, the CableCARD setup screen is automatically displayed. This screen includes information your cable TV company will request before they can activate your service.
- 5** Follow the displayed instructions: Phone your cable TV company. A representative will guide you through the activation process.
- 6** After your CableCARD is activated, your cable TV company will download the service information, including the channel list, to the CableCARD. After the CableCARD has acquired channels from your cable TV company, the TV tunes to the lowest available channel.

Removing the CableCARD

In the event you want to cancel your service, contact your cable TV company.

 Once the CableCARD is removed, your TV will no longer decrypt digital cable TV programming services that require CableCARD.

- 1** Push the eject button on the TV's CableCARD slot to release the card.



- 2** Pull the CableCARD straight out of the slot to remove it.

To install a different CableCARD, follow the instructions in “Activating CableCARD Service” on page 57.

Setting Up the TV Channel List

After you finish connecting the TV, you need to run the Initial Setup feature, which automatically creates a list of available analog and digital channels. The Initial Setup screen appears when you turn on your TV for the first time after hooking it up. If you want to refresh the list of available channels because there has been a change in your cable/satellite service or connections, you can do so by selecting the Auto Program option in the Channel menu (see page 119).

 The Initial Setup feature does not apply for installations that use a cable box for all channel selection.

Using Initial Setup

 If you are using a CableCARD, Auto Program is disabled for the CABLE input.

To run Initial Setup the first time you turn on your TV

- 1 Press **POWER** to turn on the TV.
The Initial Setup screen appears.
- 2 Press **↑** or **↓** to select the on-screen display language. Then press **OK**.
The message “Start auto program now?” appears.
- 3 Press **↑** or **↓** to select “Yes”, then press **OK**.

Initial Setup automatically creates a list of receivable channels. When finished, the lowest numbered channel is displayed.

To run Auto Program again at a later time

- Use the Auto Program feature as described on page 119.

To add individual digital channels

- Use the Digital Channel feature as described on page 119.

 Auto Program may take more than 50 minutes to complete. A progress bar is displayed while the channel list is being created.

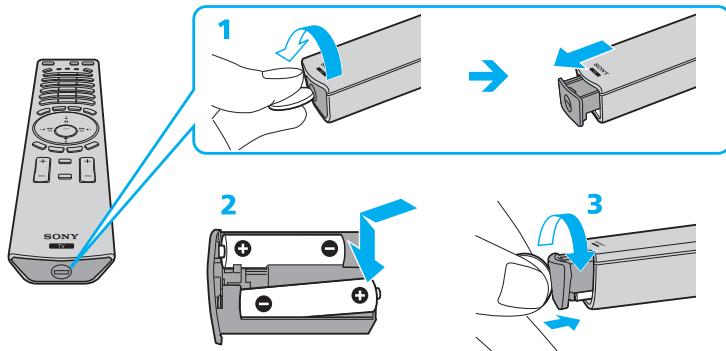
Using the Remote Control

Overview

The table on the next page describes the buttons on the remote control.

Inserting Batteries into the Remote Control

Insert two size AA (R6) batteries (supplied) by matching the **+** and **-** on the batteries to the diagram inside the battery compartment.



- ⚡ To avoid possible damage from battery leakage, remove the batteries if you anticipate the remote control will not be used for an extended period.
- ⚡ Handle the remote control with care. Avoid dropping it, getting it wet, or placing it in direct sunlight, near a heater, or in high humidity.
- ⚡ Your remote control can be programmed to operate most video equipment. (See “Programming the Remote Control” on page 64.)

Button Descriptions

Button	Description
1 MUTING	Press to mute the sound. Press again or press VOL + to restore the sound.
2 FUNCTION	Press repeatedly until the indicator of the equipment (TV, SAT/CABLE, DVD/VCR, i.LINK) that you want to operate lights up.
3 PIC OFF	Press to have the TV screen turn off. For details, see page 80.
4 SLEEP	Press repeatedly until the TV displays the time in minutes (15, 30, 45, 60 or 90) that you want the TV to remain on before shutting off. To cancel Sleep timer, press SLEEP repeatedly until Sleep Off appears.
5 GUIDE	Press to display the digital program guide. While FUNCTION is switched on SAT/CABLE , press to display the program guide of your satellite program provider.
6	Use with 0-9 and ENTER buttons to select digital channels (for example, 2.1). For details on selecting digital channels, see page 69.
7 PICTURE	Press repeatedly to step through the available video picture modes: Vivid , Standard , Pro . Also available in the Video menu. For details, see "Selecting Video Options" on page 110.
8 WIDE	Press to step through the wide screen modes: Wide Zoom , Normal , Full and Zoom . For details, see "Using Wide Screen Mode" on page 72.
9	When the menu is displayed, move the on-screen cursor. ■: Pause ■: Stop ◀: Fast-Rewind ▶: Fast-Forward
10	▶: Playback ↓: When the menu is displayed, select the item.
11	Press to turn on/off Twin View. For details, see "Using Twin View" on page 74.
12 ANT	Press to change between the VHF/UHF input and the CABLE input.
13 INDEX	While FUNCTION is switched on SAT/CABLE , press to display the index of your satellite program provider.
14 VOL +/-	Press to adjust the volume.
15 POWER buttons (Green)	Press to turn on and off the TV and other equipment you have programmed into the remote control. For instructions, see "Programming the Remote Control" on page 64.
16 SAT/CABLE	

Button	Description
15 	Press to record a program.
	Press when in a menu to reset the settings to the factory defaults.
16 	Press to cycle through the video equipment connected to your TV's video inputs: TV , VIDEO 1 , VIDEO 2 , VIDEO 3 , VIDEO 4 , VIDEO 5 , VIDEO 6 , VIDEO 7 , and VIDEO 8 (PC) .
17 	Press once to display the current time and channel label (if set) and channel number. Press again to turn Display off. See page 131 for details on setting the time.
18 	Press to jump back and forth between two channels. The TV alternates between the current channel and the last channel that was selected.
19 	Press 0 - 9 to select a channel; the channel changes after 3 seconds. Press ENTER to select immediately.
20 	Press to display the Favorite Channels list. For details, see "Using Favorite Channels" on page 77.
21 	Press to freeze the window picture. Press again to restore the picture.
22 	Press to display the i.LINK Control Panel. For information on using the i.LINK Control Panel, see page 105. Also available in the Applications Menu (page 130).
23  MEMORY STICK	Press to display the Memory Stick Menu. For details, see "Using the Memory Stick Viewer" on page 83.
24 	Press to display the TV on-screen menu. Press again to exit from the menu.
25 	Press to scan through channels. To scan quickly through the channels, press and hold down CH+ or CH- .
26 	Press to exit the on-screen menu or display and return to normal viewing.

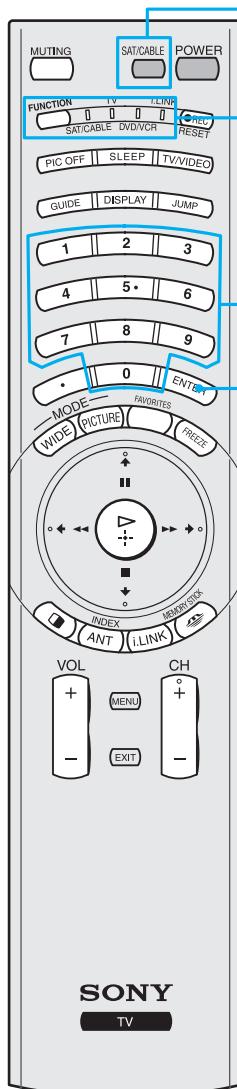
 The **5** and **CH +** buttons have a tactile dot. Use the tactile as a reference when operating the TV.

Programming the Remote Control

The remote control is preset to operate Sony brand video equipment.

Function	Equipment	Programmable Code Number
DVD/VCR	Sony DVD player	751
SAT/CABLE	Sony Satellite Receiver	801
i.LINK	Sony DVD player (i.LINK)	901

If you have video equipment other than Sony brand that you want to control with the TV's remote control, use the following procedure to program the remote control.



- 3, 6 The equipment must have infrared (IR) remote capability in order to be used with the remote control.
- 2 Press repeatedly until the DVD/VCR, SAT/CABLE or i.LINK indicator lights up.
- 4 You must do step 5 within 10 seconds of step 4, or you must redo steps 4 through 5.
- 5 Press .
- 6 To check if the code number works, aim the TV's remote control at the equipment and press that corresponds with that equipment. If it responds, you are done. If not, try using another code listed for that manufacturer.
 - If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.
 - If you enter a new code number, the code number you previously entered at that setting is erased.
 - In some cases, you may not be able to program your remote control to operate other equipment. In such cases, use the equipment's own remote control.
 - Dead batteries or removing the batteries may cause the programmable codes to be lost and revert back to factory settings. Reprogramming the codes may be necessary.

Manufacturer's Codes

DVD Players

Manufacturer	Code
Sony	751
Sony (iLINK)	901
General Electric	755
Hitachi	758
JVC	756
Magnavox	757
Mitsubishi	761
Oritron	759
Panasonic	753
Philips	757
Pioneer	752
RCA/PROSCAN	755
Samsung	758
Toshiba	754
Zenith	760

Laserdisc Players

Manufacturer	Code
Sony	701
Panasonic	704, 710
Pioneer	702

VCRs

Manufacturer	Code
Sony	301, 302, 303
Admiral (M. Ward)	327
Aiwa*	338, 344
Audio Dynamic	314, 337
Broksonic	319, 317
Canon	309, 308
Citizen	332
Craig	302, 332
Criterion	315
Curtis Mathes	304, 338, 309
Daewoo	341, 312, 309
DBX	314, 336, 337
Dimensia	304
Emerson	319, 320, 316, 317, 318, 341
Fisher	330, 335
Funai	338
General Electric	329, 304, 309
Go Video	322, 339, 340
Goldstar	332

Manufacturer

Manufacturer	Code
Hitachi	306, 304, 305, 338
Instant Replay	309, 308
JC Penney	309, 305, 304, 330, 314, 336, 337
JVC	314, 336, 337, 345, 346, 347
Kenwood	314, 336, 332, 337
LG	332
LXI (SEARS)	332, 305, 330, 335, 338
Magnavox	308, 309, 310
Marantz	314, 336, 337
Marta	332
Memorex	309, 335
Minolta	305, 304
Mitsubishi/ MGA	323, 324, 325, 326
Multitech	325, 338, 321
NEC	314, 336, 337
Olympic	309, 308
Optimus	327
Orion	317
Panasonic	308, 309, 306, 307
Pentax	305, 304
Philco	308, 309
Philips	308, 309, 310
Pioneer	308
Quasar	308, 309, 306
RCA/ PROSCAN	304, 305, 308, 309, 311, 312, 313, 310, 329
Realistic	309, 330, 328, 335, 324, 338
Sansui	314
Samsung	322, 313, 321
Sanyo	330, 335
Scott	312, 313, 321, 335, 323, 324, 325, 326
Sharp	327, 328
Signature 2000 (M. Ward)	338, 327
SV2000	338

Manufacturer

Manufacturer	Code
Sylvania	308, 309, 338, 310
Symphonic	338
Tashiro	332
Tatung	314, 336, 337
Teac	314, 336, 338, 337
Technics	309, 308
Toshiba	312, 311
Wards	327, 328, 335, 331, 332
Yamaha	314, 330, 336, 337
Zenith	331

Cable Boxes

Manufacturer	Code
Sony	230
Hamlin/Regal	222, 223, 224, 225, 226
Jerrold/G. I./ Motorola	201, 202, 203, 204, 205, 206, 207, 208, 218
Oak	227, 228, 229
Panasonic	219, 220, 221
Pioneer	214, 215
Scientific Atlanta	209, 210, 211
Tocom	216, 217
Zenith	212, 213

Satellite Receivers

Manufacturer	Code
Sony	801
Dish Network	810
Echostar	810
General Electric	802
Hitachi	805
Hughes	804
Mitsubishi	809
Panasonic	803
RCA/ PROSCAN	802, 808
Toshiba	806, 807

* If an Aiwa VCR does not work even though you enter the code for Aiwa, enter the code for Sony instead.

Using Other Equipment with Your TV Remote Control

To operate other connected equipment with your TV remote control, first turn to page 65 and program the necessary code. For operating video equipment, press **TV/VIDEO** repeatedly until you see the video input on the screen for your connected equipment. Remote control operation tips are provided below.

Operating a VCR

To Do This ...	Press
Activate the remote control to operate the VCR	FUNCTION repeatedly until the DVD/VCR indicator lights up.
Turn on/off	SAT/CABLE
Change channels	CH +/-
Record	● REC
Play	
Stop	
Fast forward	
Rewind the tape	
Pause	
Search the picture forward or backward	 or  during playback (release to resume normal playback)

Operating a Satellite Receiver

To Do This ...	Press
Activate the remote control to operate the satellite receiver	FUNCTION repeatedly until the SAT/CABLE indicator lights up.
Turn on/off	SAT/CABLE
Select a channel	0-9, ENTER
Change channels	CH +/-
Back to previous channel	JUMP
Display channel number	DISPLAY
Display SAT Index	INDEX
Display SAT Guide	GUIDE
Display SAT Menu	MENU
Move highlight (cursor)	   
Select item	

Operating a Cable Box

To Do This ...	Press
Activate the remote control to operate the cable box	FUNCTION repeatedly until the SAT/CABLE indicator lights up.
Turn on/off	SAT/CABLE
Select a channel	0-9, ENTER
Change channels	CH +/–
Back to previous channel	JUMP

Operating a DVD Player

To Do This ...	Press
Activate the remote control to operate the DVD	FUNCTION repeatedly until the DVD/VCR indicator lights up.
Turn on/off	SAT/CABLE
Play	PLAY (circle)
Stop	STOP (square)
Pause	PAUSE (double vertical bars)
Step through different tracks of the disc	▶▶ to step forward or ◀◀ to step backward
Step through different chapters of a video disc	CH+ to step forward or CH– to step backward

Operating an MDP (Laserdisc Player)

To Do This ...	Press
Activate the remote control to operate the MDP	FUNCTION repeatedly until the indicator of the position you programmed for the MDP player lights up.
Turn on/off	SAT/CABLE
Play	PLAY (circle)
Stop	STOP (square)
Pause	PAUSE (double vertical bars)
Search the picture forward or backward	▶▶ or ◀◀ during playback (release to resume normal playback)
Search a chapter forward or backward	CH +/–

Using the Features

Overview

This chapter describes how to use the features of your TV.

Topic	Page
Watching TV	69
Using the Program Guide	70
Using Wide Screen Mode	72
Using Twin View	74
Using Favorite Channels	77
Using the Freeze Function	79
Using Picture Off	80
Using the PC Input	81

Watching TV

For a complete list of all the functions of the remote control, see pages 61-67.

To Do This ...	Do This ...
Activate the remote control to operate the TV	Press FUNCTION repeatedly until the TV indicator lights up.
Turn on/off the TV	Press POWER .
Tune directly to a channel	To tune to analog channels, press 0-9 and then ENTER . For digital subchannels, press 0-9 ,  , press 0-9 again, and then ENTER .
Adjust the volume	For example, to select subchannel 21.13, press 2+1 ,  +1+3 , and then press ENTER . You can also select channels using the program guide. See page 70 for details.
Mute the sound	Press VOL +/- . Press MUTING (press again or VOL + to restore the sound).
Alternate back and forth between two channels	Press JUMP . The TV alternates between the current channel and the last channel that was selected.
Display the current channel number (and other information)	Press DISPLAY once to display the channel number, current time, and channel label (if set). Press DISPLAY again to turn Display off.
Switch the TV's input to the VCR, DVD player, or other connected equipment	Press TV/VIDEO repeatedly to cycle through the video equipment connected to the TV's video inputs.
Change video and audio options, customize the TV's setup, set parental controls, and more	Press MENU to display the Menu. For details, see "Using the Menus" on page 109.
Switch the TV's input between sources connected to the TV's VHF/UHF and CABLE inputs	Press ANT to alternate between sources connected to the TV's VHF/UHF and CABLE inputs.

Using the Program Guide

Displaying the Program Guide

This TV is equipped to show program information if it is available from the station. The program guide lets you review program information and select both analog and digital channels.

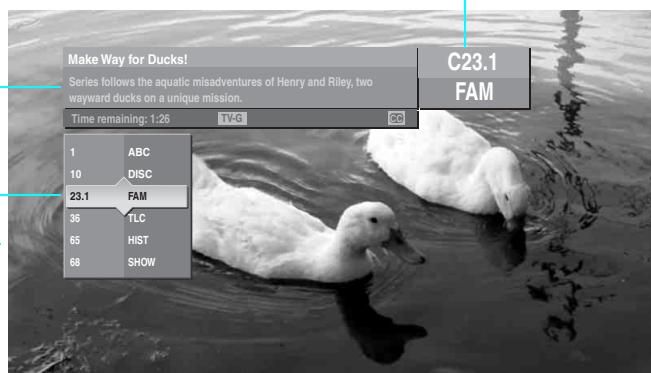
To display the program guide

- 1 Tune your TV to a channel by using the 0-9, ., and **ENTER** buttons.
- 2 Press **GUIDE** on the TV's remote control. The program guide will appear with the currently selected program showing in the background.

Channel number,
call letters, etc.

Program title and
description,
program
duration, time
remaining, rating
information,
closed-caption
availability, etc.

Selectable
channel list.



☞ Program information in the guide is provided by the broadcasters. As a result, it may sometimes include only the channel number, without a program title or description.

Using the Guide Menu

The Program Guide menu allows you to select channels from a dropdown list. The Guide provides information about the current program being shown on each channel.



☞ Subchannels are additional channels of programming broadcast simultaneously. For example, channel 4 might include three subchannels (4.1, 4.2, 4.3) that are showing programs at the same time.

Using the Program Options Menu

The Program Options menu allows you to customize the program settings on the currently tuned channel.

Option	Description
Alternate Video (when available)	Each program has a main video stream (the video that you see when the channel is first tuned), and may have alternate video streams. This option allows you to switch among these alternate video streams.
Alternate Audio (when available)	Each program has a main audio stream (the audio that you hear when the channel is first tuned), and may have alternate audio streams. This option allows you to switch among these alternate audio streams (e.g., for different languages).

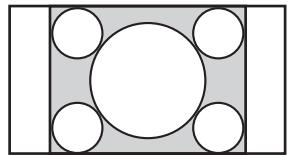
Using Wide Screen Mode

💡 You can also access the screen mode settings in the Screen menu. For details, see page 117.

Wide screen mode lets you watch 4:3 normal broadcasts in several wide screen modes (16:9 aspect ratio).

- Press **WIDE** repeatedly to toggle through the following screen mode settings.

Changing the Wide Screen Mode for 4:3 Source (Standard definition source)

original source	Description
	
 Wide Zoom	Wide Zoom enlarges the center portion of the picture. The left and right edges of the picture are stretched to fill the 16:9 screen.
 Normal	Normal displays the 4:3 picture in its original size. Side bars are shown to fill the 16:9 screen.
 Full	Full stretches the 4:3 picture horizontally, to fill the 16:9 screen.
 Zoom	Zoom enlarges the 4:3 picture to fill the 16:9 screen. Zoom is useful for watching Letterbox movies.

⚠ When you change channels or inputs, the Wide Mode settings revert to the 4:3 Default setting in the Screen Menu. To retain the current Wide Mode setting as channels and inputs are changed, set 4:3 Default to Off. For details, see page 118.

Changing the Wide Screen Mode for 16:9 Source (High definition source)

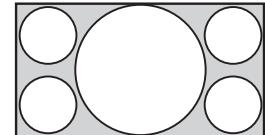
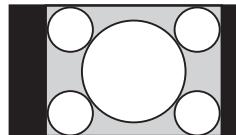
original source



(Upconverted 4:3)



(Native 16:9)

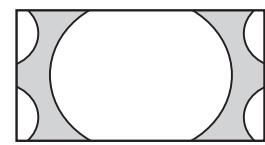
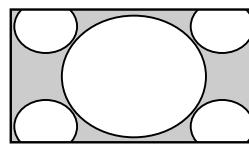


Example

Description



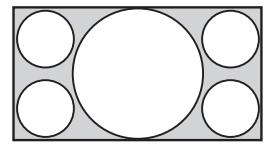
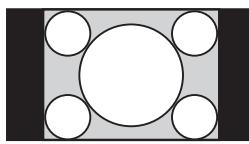
Wide Zoom



Full displays the picture in its original size.



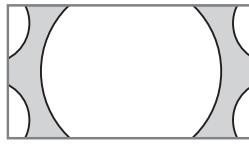
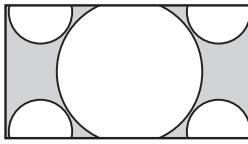
Full



Zoom enlarges the picture proportionately, both vertically and horizontally.



Zoom



When the TV receives a 720p or 1080i signal, Normal cannot be selected.

When TV receives a 720p or 1080i signal that is 4:3 aspect ratio picture (upconverted to 16:9) with a black bar at each side, Full returns the picture to its original size.

Using Twin View

Twin View lets you see two pictures from two sources — from an antenna, VCR, DVD, etc. — on the screen at the same time. You hear the sound from only one of the sources at a time, but you can choose which source's sound is selected. You can also change the relative size of each of the pictures.

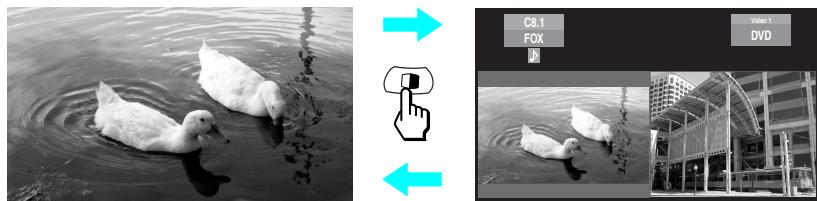
Displaying Twin Pictures

To display Twin View

1 Make sure your TV is tuned to a working channel.

2 Press .

A second picture appears. A  mark appears above the activated picture.



To cancel Twin View and watch the active picture

□ Press  again (or press ).

Activating the Picture

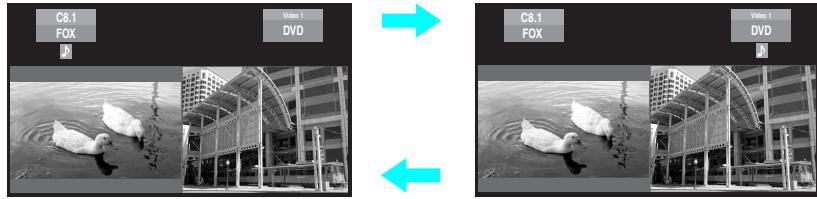
You can use  or  buttons to activate the left and right pictures while using Twin View.

To activate the right picture

□ Press .

To activate the left picture

Press .



Functions available in the active window

To Do This ...	Do This ...
Tune to a channel	To tune to analog channels, press 0-9 and then ENTER . For digital subchannels, press 0-9 ,  , press 0-9 again, and then ENTER .
Adjust the volume	For example, to select subchannel 21.13, press 2+1+ . +1+3 , and then press ENTER . Press VOL +/- .
Mute the sound	Press MUTING (press again or press VOL + to restore the sound).
Switch the TV's input between sources connected to the TV's VHF/UHF and CABLE inputs	Press ANT .
Switch the TV's input between sources connected to the TV's A/V inputs	Press TV/VIDEO .
Change the picture size	Press ▲ or ▼ . (For details, see "Changing the Picture Size" on page 76.)

Factors Affecting Twin View

- If you use a cable box to view all channels, the same channel appears in both windows because the cable box unscrambles and sends only one channel at a time. (To view the picture in dual picture features such as Twin View, Freeze, etc., see "Cable Box and Antenna" on page 33.)
- If you use a cable box and other video equipment, you can view the cable box output in one window and view a different source (such as a VCR or DVD player) in the second window by using the **TV/VIDEO** button.
- Digital TV channels, as well as any sources connected to the HD/DVD IN 4-5, and HDMI IN 6-7 inputs display in the left window, but not the right.
- If you are viewing a 4:3 source and a 16:9 enhanced source (such as a DVD) side by side, the 4:3 source appears larger.
- Twin View does not display channels that are blocked by parental settings (see page 121).
- Twin View does not display images from a Memory Stick, an i.LINK-equipped device, or a personal computer.

Changing the Picture Size

The zoom feature lets you change the size of the left and right pictures.

To enlarge the left picture (reduce the right)

- 1 Press **◀** to activate the left picture (if not already activated).
- 2 Press **▲** to enlarge the picture and **▼** to reduce the picture.



To enlarge the right picture (reduce the left)

- 1 Press **▶** to activate the right picture (if not already activated).
- 2 Press **▲** to enlarge the picture and **▼** to reduce the picture.

When you adjust the picture sizes in Twin View, the TV memorizes the change. The next time you use the Twin View function, the memorized sizes appear.

Using Favorite Channels

The Favorite Channels feature lets you select programs from a list of up to 16 favorite channels that you specify. You can create a list using the Favorite Channels option in the Channel Menu, or by using the Add to Favorites feature in the Favorite Channels guide.

Using the Channel Menu

For details on using the Channel Menu, see page 119.

- 1 Press **MENU** to display the Menu.
- 2 Press **↑** or **↓** to highlight the Channel icon and press **OK**.
- 3 Press **OK** to select **Favorite Channels**.
- 4 Use the **0-9** and **ENTER** buttons to enter the channel number that you want to assign to the Favorite Channel number. A preview of the highlighted channel appears in the upper right of the screen.

 Digital channels do not display in the preview window.

Press **OK** to select that channel as a Favorite Channel.

 To enter digital channel numbers in step 4, use the **0-9**, **OK**, **0-9** and **ENTER** buttons.

- 5 To add more channels to your favorites list, repeat step 4. To clear a Favorite Channel, press **↑** or **↓** to highlight the channel you want to clear. Press **RESET**.
- 6 Press **MENU** to exit the Menu.

Using the Favorite Channels Guide

1 Press FAVORITES.

The Favorite Channels list appears.



2 Press **↑** or **↓** to highlight the channel you want to watch. A preview of the highlighted Favorite Channel appears.

 Digital channels do not display in the preview window.

To add the current channel to the list of Favorite Channels, highlight **Add to Favorites** and press .

3 Press  to select the channel you want to watch.

To change your Favorite Channels list or delete a channel from the list, highlight **Edit Favorites** and press .

Using the Freeze Function

The **FREEZE** button allows you to temporarily capture a program's picture. You can use this feature to write down information such as phone numbers, recipes, etc.

 The Freeze feature is not available if you are using Favorite Channels (see page 77) or Twin View (see page 74).

To use the Freeze function

- 1 When the program information you want to capture is displayed on the screen, press **FREEZE**.
- 2 The TV switches to Twin View and displays the “frozen” picture on the right, while the current program continues on the left.



- 3 To cancel and return to normal viewing, press **FREEZE** again (or just turn to another channel).

Using Picture Off

The Picture Off feature lets you enjoy music from radio programs of digital broadcasts or DVDs with the TV screen turned off.

 This feature turns off the display unit only.

1 Press **PIC OFF**.

The PICTURE OFF LED lights up in blue and the screen turns off. To cancel and return to normal viewing, press any button except for **VOL +/-**, **POWER** and **MUTING**.

Using the PC Input

The PC Input feature allows you to connect a personal computer to your TV so that you can enjoy the PC's contents on the large screen of the TV and the sound from the PC with the TV's speakers.

☞ For details on how to connect a personal computer to your TV, see "Personal Computer" on page 46.

Displaying the PC Screen

To display the PC screen using the remote control:

- Press TV/VIDEO repeatedly until VIDEO 8 (PC) appears.

To display the PC screen using the media receiver unit:

- Press the PC button on the front panel.

☞ You can change the settings for the PC input while the TV is displaying the PC screen. For details, see pages 113, 116, and 127.

Notes on the PC Input Feature

- If the iLINK button on the remote control or the media receiver unit is pressed while the TV is displaying the PC screen, the following message will appear: Feature not available.
- If the Memory Stick button on the remote control is pressed while the TV is displaying the PC screen, the Memory Stick Index will appear on the TV screen.
- To switch to the PC input while using the Twin View feature, try the PC button on the media receiver, instead of the remote control. Pressing TV/VIDEO repeatedly on the remote control will skip VIDEO 8 (PC) if Twin View is in use.

Using the Memory Stick Viewer

About Memory Stick



Memory Stick (sold separately) is a compact, portable, and versatile Integrated Circuit recording medium with a data capacity that exceeds that of a floppy disk. Memory Stick is specially designed for sharing digital data among Memory Stick compatible products such as digital cameras and digital video cameras. Because it is removable, Memory Stick can also be used for external data storage.

The Memory Stick Viewer on your TV allows you to view files that are stored on Memory Stick media. You can view:

- Digital photos (JPEG files)
- Movies (MPEG1 files)

You can also play slide show background music using MP3 files stored on your Memory Stick.

For more information about handling Memory Stick media, see “Notes on Using Memory Stick Media” on page 98.

Features

With the Memory Stick Viewer, you can:

- View photo (JPEG) and movie (MPEG1) files in a thumbnail index or Slide Show
- Set customized Slide Show options, including transitions and background audio
- Pan, zoom, and rotate photos
- Mark photos and set quantities of prints to be output when the Memory Stick is inserted into your photo printer (not supplied)
- Lock (protect) or delete files on the Memory Stick

Memory Stick Compatibility

This television is compatible with the following Sony brand Memory Stick media types:

- Memory Stick Media
- Memory Stick Duo and PRO Duo Media (can be used without the Memory Stick adaptor)

 **CAUTION:** The Memory Stick slot on your TV has been designed to accommodate standard and compact versions of Memory Stick. It is not necessary to use an adaptor for Memory Stick Duo and Memory Stick PRO Duo. If you use an adaptor, it may damage the adaptor and Memory Stick slot.

- Memory Stick Media with Memory Select Function
- Memory Stick PRO Media

About Memory Stick PRO Media

Memory Stick PRO media features vary by and are dependent upon the design of host hardware devices. Memory Stick PRO in this TV has been tested to support up to 1 GB media capacity and does not support high-speed transfer, MagicGate copyright protection technology, or access control security features.

Memory Stick Functionality

Sony cannot guarantee or assure the Memory Stick functionality on this television in the following cases:

- You are using non-Sony brand Memory Stick media.
- You are using video or audio clips that have been processed on a computer.
- You are using files that were obtained from the Internet or from a printed film processing center.
- The Memory Stick has been formatted on a personal computer.

Sony recommends that you back up all data stored on Memory Stick media to avoid potential data loss. In the above two cases, in order to avoid potential data corruption that may occur, be sure to back up data prior to use with the TV's Memory Stick Viewer. Sony cannot accept responsibility in the event that data recorded to Memory Stick media is lost or damaged. For certain non-Sony brand Memory Stick media, you can view images, but you cannot rotate, delete or protect/unprotect images on the television. An error message will occur if you attempt any of these operations. This is a result of the unique file directory structure on these particular flash memory media and is not a malfunction of the television.

File Compatibility

The Memory Stick Viewer is compatible with JPEG images taken with Sony digital still cameras and MPEG1* movies taken with Sony digital cameras and camcorders. To be viewable in the Memory Stick Viewer, files must have the following file name extensions:

* Some variations of MPEG1 movies may not play back correctly.

File Type	Supported File Name Extensions
JPEG	.jpg .jpeg
MPEG1	.mpg .mpeg

Trademark Information

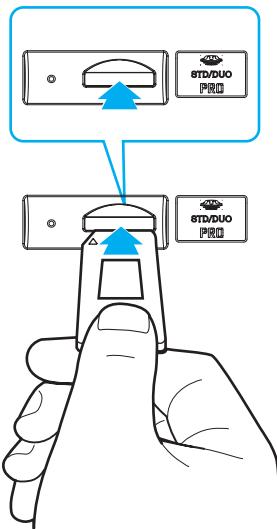
Memory Stick, Memory Stick Duo, Memory Stick PRO, Memory Stick PRO Duo, and MagicGate are trademarks of Sony Corporation.

Inserting and Removing a Memory Stick

If you are using a Memory Stick Duo and PRO Duo, see “Inserting the Memory Stick Duo” on page 87.

Inserting a Memory Stick

Locate the Memory Stick slot and insert the Memory Stick into the Memory Stick slot as illustrated below. When inserted properly, it should slide in with little resistance and click into place.



- ☞ Be sure to insert the Memory Stick in the correct direction. Forcing the Memory Stick in the wrong way may damage it.
- ☞ Insert only Memory Stick media into the Memory Stick slot. Attempting to insert other objects into the Memory Stick slot may damage the TV.

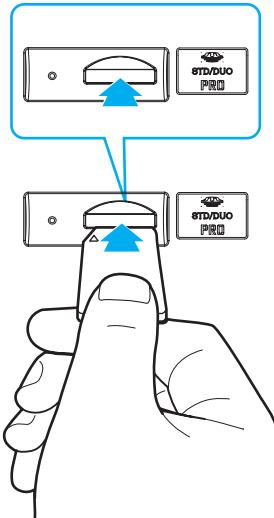
To remove the Memory Stick, see “Removing a Memory Stick” on page 88.

Inserting the Memory Stick Duo

Memory Stick Duo is a new, compact version of the standard-sized Memory Stick recording medium.

- ☞ **CAUTION:** The Memory Stick slot on your TV has been designed to accommodate standard and compact versions of Memory Stick. It is not necessary to use an adaptor for Memory Stick Duo and Memory Stick PRO Duo. If you use an adaptor, it may damage the adaptor and Memory Stick slot.
- ☞ **CAUTION:** Inserting the Memory Stick Duo incorrectly may result in permanent damage to the Memory Stick Duo and the TV.

Insert the Memory Stick Duo as shown below.



To remove the Memory Stick Duo, see “Removing a Memory Stick” on page 88.

Removing a Memory Stick

1 Check that the Memory Stick indicator is off. (When the light is on, this indicates that the TV is reading data from the Memory Stick.)

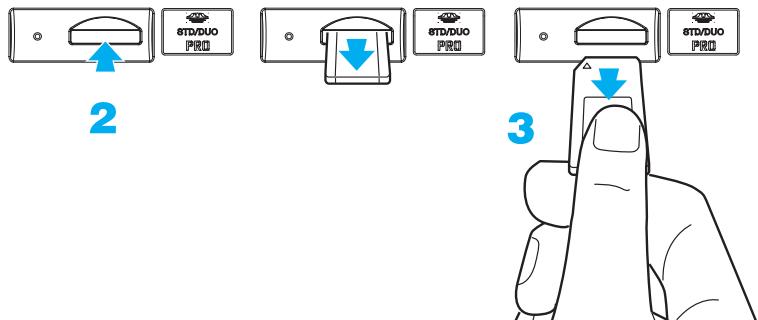
 **Removing the Memory Stick while a file is being accessed (when the Memory Stick indicator on the TV's front panel is lit) may damage the Memory Stick or its contents.**

2 Push the Memory Stick gently into the Memory Stick slot, and then release it. The Memory Stick media is ejected.

 **When removing the Memory Stick, do not attempt to pull it from its slot without first pushing it in to release it.**

3 Pull the Memory Stick completely out of the slot.

 **To protect small children from injury by Memory Stick media, remove all Memory Stick media from the TV's Memory Stick slot and store in a safe location when not in use.**

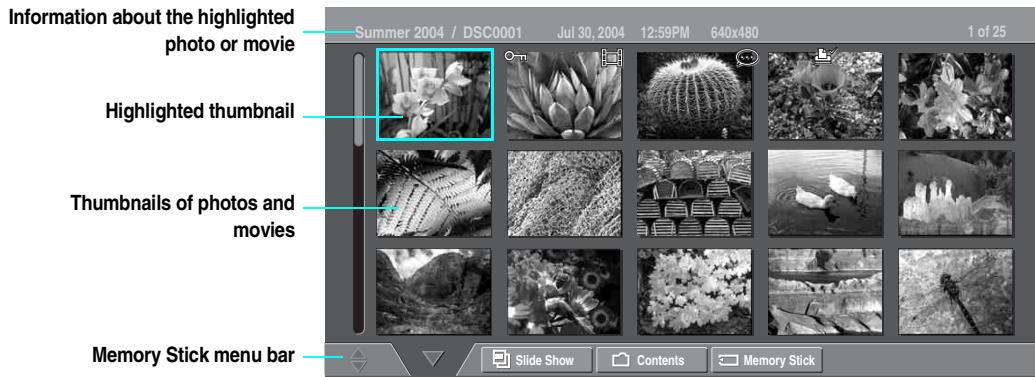


Using the Memory Stick Index

Turn on the TV and insert a Memory Stick that contains the photo or movie files you want to view. To insert a Memory Stick, see “Inserting a Memory Stick” on page 86.

☞ If the Memory Stick Index does not appear, press  on the remote control.

The Memory Stick Index appears, which displays thumbnail images of the files stored on the Memory Stick.



About the Lock and Movie Icons on the Thumbnail Images

-  Indicates the thumbnail is a movie (MPEG1) file instead of a photo (JPEG) file.
-  Indicates the thumbnail is locked. Locked files cannot be changed or deleted. For details, see “Protect” on pages 92 and 95.
-  Indicates that the photo is marked to be printed.
-  Indicates that the photo has an associated voice memo.

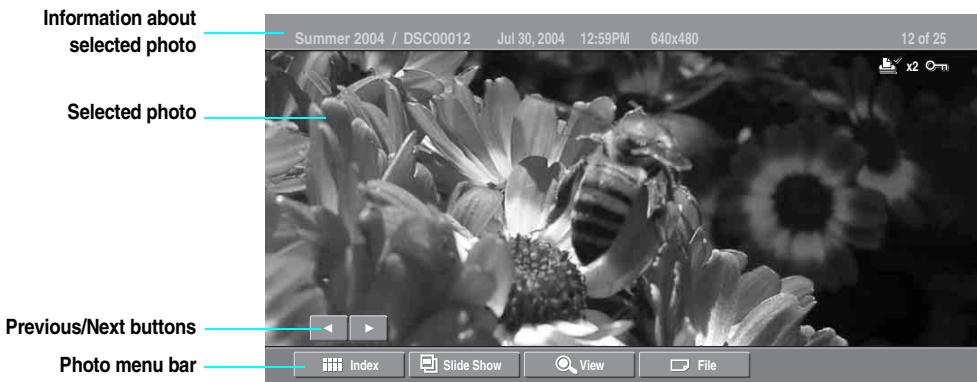
Using the Memory Stick Index

The following describes how to use the Memory Stick Index.

To Do This ...	Do This ...
Move the highlight to a photo, voice memo (⌚), or movie (🎥) thumbnail	Press $\uparrow \downarrow \leftarrow \rightarrow$.
Display the highlighted photo, voice memo, or movie file full screen	Press $\text{P}_\text{+}$. For details, see “Viewing Photos” on page 91 and “Playing Movies” on page 94.
Display the next page of thumbnails	1 Press \downarrow to select ∇ . 2 Press \downarrow to display the next page of thumbnails.
Display the previous or next page of thumbnails	1 Press \downarrow to select ∇ . 2 Press \leftarrow to select Δ . 3 To go to the previous page, press \uparrow . To go to the next page, press \downarrow .
Use the Memory Stick menu bar to access additional options	1 Press \downarrow to select ∇ . 2 Press \leftarrow or \rightarrow to select Slide Show , Contents , or Memory Stick . 3 Press \uparrow or \downarrow to select the option you want to change. For details on these options, see “Memory Stick Index Menu Bar Options” on page 96.
Move the highlight from the Memory Stick menu bar back to the thumbnails	1 Press \leftarrow or \rightarrow to select ∇ . 2 Press \uparrow to return to the currently displayed thumbnails, or \downarrow to display the next page of thumbnails.
Exit Memory Stick Viewer	Press  on the remote control.

Viewing Photos

When you select a photo from the Memory Stick Index (described on pages 89), it displays as shown below, with the following controls.



JPEGs captured using a digital video camera may appear to display motion in full screen. This is a result of the way digital video cameras record still images, and is not a result of a malfunction with the TV.

Photo Controls

When the menu is hidden, press \blacktriangleleft or \triangleright to go to the previous or next photo.

To Do This ...	Do This ...
Display the next or previous file on the Memory Stick	Press \blacktriangleup to highlight the \blacktriangleleft \triangleright (Previous/Next) button. Then press \blacktriangleleft to go to the previous file, or \triangleright to go to the next file.
Hide the Photo menu bar, displaying only the photo	With the highlight in the Photo menu bar, press \blacktriangledown .
Display the hidden Photo menu bar	Press \blacktriangleup .
Play the JPEG voice memo (files only)	Highlight \triangleright (Play) and then press . To pause the voice memo, highlight \blacksquare (Pause) and then press .
Display the Memory Stick Index again	Press \blacktriangleleft or \triangleright to highlight Index in the Photo menu bar and press . For details on the Memory Stick Index, see pages 90.
Access additional options in the Photo menu bar	See "Photo Menu Bar Options" on page 92.
Exit Memory Stick Viewer	Press on the remote control.

Photo Menu Bar Options

The Photo menu bar lets you access additional photo viewing options.

To access the Photo menu bar

- 1 Press **◀** or **▶** to select **Index**, **Slide Show**, **View**, or **File**.
- 2 Use **↑** **↓** **◀** **▶** to select the desired option.

Option	Description	
Index	Displays the Memory Stick Index, with the highlight on the currently displayed photo's thumbnail. For details, see "Using the Memory Stick Index" on page 89.	
Slide Show	Displays the Slide Show menu. For details, see "Slide Show Menu Options" on page 96.	
View	Rotate	Allows you to rotate the photo in 90 degree increments clockwise or counterclockwise. For details, see "Using Rotate" on page 93.
	Zoom/Pan	Allows you to magnify and pan across the photo. For details, see "Using Zoom and Pan" on page 93.
File	Protect	Allows you to protect the JPEG file from any changes. When a JPEG file is protected, it cannot be rotated or deleted. Select On or Off .
	Print Quantity	Allows you to indicate the number of prints to make of the specific photo when the Memory Stick is inserted into a compatible photo printer (not supplied).
Delete	Deletes the JPEG file from the Memory Stick. You cannot delete a JPEG file that has been protected (or if the Memory Stick is locked).	

 JPEG files that are protected are indicated by the Lock  icon.

 The **Print Quantity** feature is also known as DPOF (Digital Print Order Format).

Using Zoom and Pan

To Zoom and Pan a photo

- 1 In the Photo menu bar, press **◀** or **▶** to highlight **View**.
- 2 Press **▲** or **▼** to highlight **Zoom/Pan** and press **(OK)**.
- 3 Specify the zoom center point by using **▲** **▼** **◀** **▶**, then press **(OK)** to set the center.

The Zoom and Pan controls are displayed.



To Do This ...

Zoom in (increase magnification) or out (decrease magnification)

Do This ...

Press **◀** or **▶** to highlight **Zoom** and press **(OK)**. Then press **▲** to zoom in or **▼** to zoom out.

To stop using Zoom, press **(OK)**.

Pan (left, right, up, down)

(You can use **Pan** only when the photo is magnified using **Zoom**.)

Press **◀** or **▶** to highlight **Pan** and press **(OK)**. Then press **◀** **▶** **▲** **▼** to pan around the photo.

To stop using Pan, press **(OK)**.

Exit the Zoom/Pan controls

Press **◀** or **▶** to highlight **Exit** and press **(OK)**.

Exit Memory Stick Viewer

Press **Esc** on the remote control.

Using Rotate

 You cannot rotate a photo that has been protected. See "Protect" on page 92.

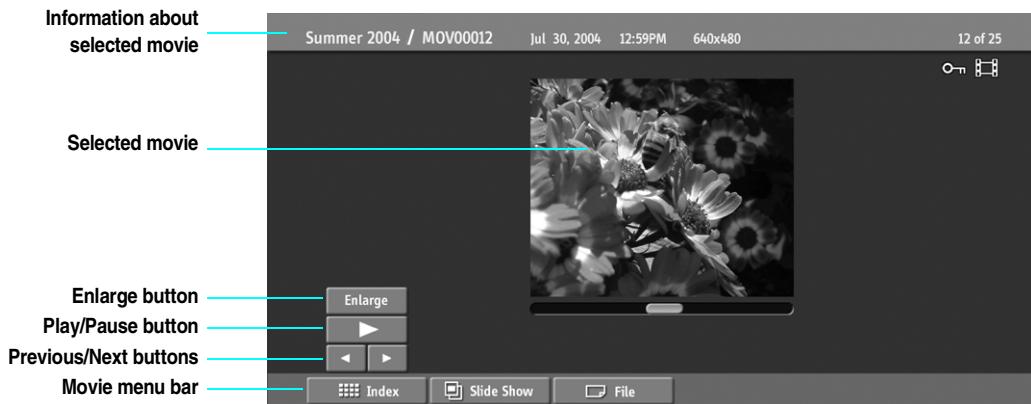
To Rotate a photo

- 1 In the Photo menu bar, press **◀** or **▶** to highlight **View**.
- 2 Press **▲** or **▼** to highlight **Rotate**.
- 3 To rotate clockwise, press **▲** or **▼** to highlight **Clockwise** and press **(OK)**. To rotate counterclockwise, press **▲** or **▼** to highlight **Counterclockwise** and press **(OK)**.

The photo is rotated 90 degrees each time you press **(OK)**.

Playing Movies

When you select a movie from the Memory Stick Index (described on pages 89), it displays as shown below, with the following controls.



 MPEG movies recorded in VX Fine mode with Sony digital cameras cannot be played back with the Memory Stick Viewer.

Movie Controls

 The quality of the movie when enlarged depends on the resolution of the MPEG1 file. See your camera's instruction manual for details.

To Do This ...	Do This ...
Enlarge the movie window	Press \uparrow or \downarrow to highlight Enlarge , and then press \circlearrowright . To display the movie controls again, press \circlearrowleft .
Play the movie with the movie controls displayed	Press \uparrow or \downarrow to highlight \blacktriangleright (Play) and then press \circlearrowright .
Pause the movie	While the movie is playing, the \blacktriangleright button changes to the \blacksquare (Pause) button. Press \uparrow or \downarrow to highlight \blacksquare (Pause) and then press \circlearrowright .
Display the previous or next file on the Memory Stick	Press \uparrow or \downarrow to highlight the $\blacktriangleleft\blacktriangleright$ (Previous/Next) button. Then press \blacktriangleleft to go to the previous file, or \blacktriangleright to go to the next file.
Hide the Movie menu bar, displaying only the movie	With the highlight in the Movie menu bar, press \downarrow .
Display the hidden Movie menu bar	Press \uparrow .
Access additional options in the Movie menu bar	See "Movie Menu Bar Options" on page 95.
Exit Memory Stick Viewer	Press  on the remote control.

Movie Menu Bar Options

To access the Movie menu bar

- 1 Use **↑** or **↓** to highlight **Index** in the Movie menu bar.
- 2 Press **◀** or **▶** to select **Index**, **Slide Show**, or **File**.
- 3 Press **↑** or **↓** to select the desired option.

Option	Description				
Index	Displays the Memory Stick Index, with the highlight on the thumbnail of the currently displayed movie.				
Slide Show	Displays the Slide Show menu. For details, see “Slide Show Menu Options” on page 96.				
File	<table><tr><td>Protect</td><td>Allows you to protect the MPEG1 file from any changes. When an MPEG1 file is protected, it cannot be deleted. Select On or Off.</td></tr><tr><td>Delete</td><td>Deletes the MPEG1 file from the Memory Stick. You cannot delete an MPEG1 file that has been protected (or if the Memory Stick is locked).</td></tr></table>	Protect	Allows you to protect the MPEG1 file from any changes. When an MPEG1 file is protected, it cannot be deleted. Select On or Off .	Delete	Deletes the MPEG1 file from the Memory Stick. You cannot delete an MPEG1 file that has been protected (or if the Memory Stick is locked).
Protect	Allows you to protect the MPEG1 file from any changes. When an MPEG1 file is protected, it cannot be deleted. Select On or Off .				
Delete	Deletes the MPEG1 file from the Memory Stick. You cannot delete an MPEG1 file that has been protected (or if the Memory Stick is locked).				

 MPEG1 files that are protected are indicated by the Lock icon.

Memory Stick Index Menu Bar Options

Slide Show Menu Options

 The Slide Show menu is the same whether you select it from the Memory Stick Index (pages 89), Photo (pages 91), or Movie (pages 94) menus.

 When you select **Complete list**, it may take a moment to display the list of all MP3 files.

 Some JPEG files may take longer to display than others, which may make it seem longer than the interval you selected for **Slide Advance**.

The Slide Show menu includes the following options:

Option	Description
Start	Starts the Slide Show.
Music	Allows you to select background audio to play during the Slide Show.
Off	No additional background audio is played during the Slide Show. Audio that is associated with the JPEG or MPEG1 files will play.
Play Memory Stick	Plays all MP3 files on the Memory Stick. The Piano MP3 file is not played.
Piano (Built-in music)	Plays the MP3 file stored in the TV's internal memory.
(List of MP3 Files)	Displays a list of all MP3 files found at the top level (root) of the Memory Stick. To show additional MP3 files stored in other folders on the Memory Stick, select Complete list .
Complete list	Displays a list of all available MP3 files. The list is sorted in alphabetical order, grouped by folder.
Transition Effect	Allows you to select an effect to be used when advancing to the next file in the Slide Show.
Slide Advance	Allows you to specify when to advance to the next slide.
Fast	Slide advances after about 3 seconds.
Medium	Slide advances after about 6 seconds.
Slow	Slide advances after about 12 seconds.
Manual advance	Slide advances only after you press ◀ or ▶ .
File Information	Determines whether file information is displayed. Select On or Off .
Repeat	On Slide Show continuously loops. Off Slide Show plays once through all files and ends.

Contents Menu

Options

The Contents menu includes the following options:

Option	Description
Select Folder	Allows you to select different folders to view in the Memory Stick Viewer.
Digital Camera Folders	Selects all folders within the directories defined by the DCF rules used by Sony digital cameras (see pages 98). JPEG and MPEG1 files in those directories are recognized even if they do not conform to the DCF file naming rules.
Select a Folder	Allows you to access individual folders on the Memory Stick.
File Order	Allows you to change the order in which the Memory Stick files are displayed.
Date Order	Displays files in chronological order by modification date.
Date Order Reverse	Displays files in reverse chronological order by modification date.
Alphabetical	Displays files in alphabetical order by filename.
Filter	Allows you to selectively display specific file types within the selected folder.
Show Photos and Movies	Displays all readable files.
Show Photos Only	Displays only photo (JPEG) files.
Show Movies Only	Displays only movie (MPEG1) files.
Show All Print Marks	Displays all files marked with the Print Mark feature, regardless of the currently selected folder. For details, see “Print Quantity” on pages 92.

 The Rotate and Protect functions do not change the file's modification date.

Memory Stick Menu

The Memory Stick menu displays the current status of the Memory Stick, including total capacity, used capacity, and free capacity.

Notes on Using Memory Stick Media

About DCF File Names

Most Sony brand digital still and video cameras automatically record still photo and movie files using DCF compliant directory and file names.

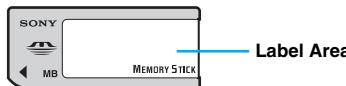
If you selected the [Digital Camera Folders](#) option, as described on pages 97, you might want to have your digital camera's instruction manual handy in order to check how files and directories are organized for your specific model of digital camera.

DCF stands for "Design Rules for Camera File Systems," which are specifications established by the Japan Electronics and Information Technology Industries Association (JEITA: formerly JEIDA).

Memory Stick Precautions

When using Memory Stick media, follow these precautions:

- To avoid permanent damage to still image data, do not turn off the TV or remove Memory Stick media from the insertion slot while data is being read (as indicated by the Memory Stick indicator light being on).
- Avoid touching the terminal of Memory Stick media or bringing it into contact with a metal object.
- Do not drop, bend, or submit Memory Stick media to external shock.
- Do not disassemble or modify Memory Stick media.
- Avoid getting liquid on Memory Stick media.
- Apply labels only within the designated label area.



- To avoid permanent damage to still image data, do not use or store Memory Stick media in a location subject to:
 - High temperature (such as near a heater or inside a hot car)
 - High humidity
 - Direct sunlight
 - Corrosive substances
 - Magnetic fields
 - Excessive dust
 - Static electricity or electric noise
 - Electric surges
- Store and carry Memory Stick media in its original case to ensure protection of stored data.
- Save a backup of stored data.
- When using the Memory Stick Duo, insert it without using the Memory Stick Duo adaptor. For details, see page 87.

Using i.LINK

About i.LINK

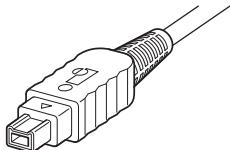
This TV is equipped with i.LINK, which provides a secure digital interface to other digital home entertainment devices, such as digital VCRs, digital camcorders, set-top boxes, and other devices that also are equipped with i.LINK. i.LINK allows for the secure transfer of copyright-protected digital content between these devices and your digital television.

i.LINK is a trademark of Sony Corporation and used only to designate that a product contains an IEEE 1394 connector.

All products with an i.LINK connector may not communicate with each other.

Using i.LINK Cables

This TV has three S400 i.LINK terminals (one in the front panel, and two in the back panel). You can use the following i.LINK cables with this TV:



4-pin i.LINK cable

Sony Model	Length
VMC-IL4415	1.5 meters
VMC-IL4435	3.5 meters

 Do not use cables other than the ones listed above.

Connecting i.LINK Devices

 Before connecting this unit to i.LINK-compatible equipment, read the instruction manual of the i.LINK device to be connected.

To connect a digital i.LINK device (using only a digital signal)

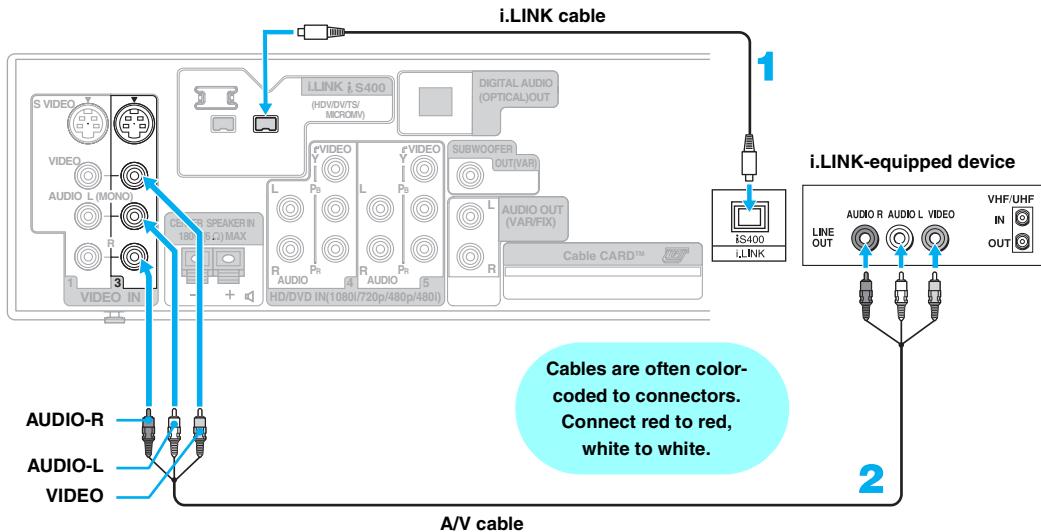
- 1 Using an i.LINK cable (see page 101), connect the device's i.LINK jack to either of the TV's i.LINK jacks.

To connect an i.LINK device that supports an EIA-775A connection

- 1 Using an i.LINK cable (see page 101), connect the device's i.LINK jack to either of the TV's i.LINK jacks.
- 2 Using an A/V cable, connect the i.LINK device's A/V output jacks to the TV's VIDEO 3 A/V input jacks.

 Only one i.LINK cable should connect the TV and any given i.LINK device.

Rear of the Media Receiver Unit

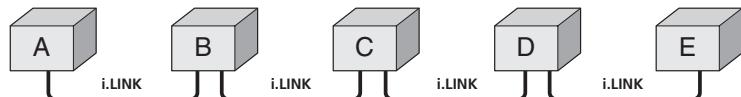


Notes on Using This Connection

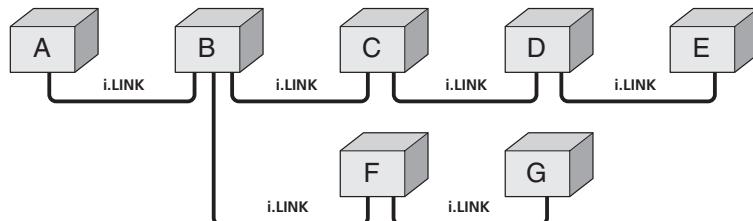
To Do This ...	Do This ...
Set up a digital i.LINK device	For digital i.LINK devices (devices that require only the i.LINK connection), no setup is necessary. The TV automatically recognizes the device as soon as the connection is made.
Set up an i.LINK device that supports an EIA-775A analog connection	<ol style="list-style-type: none"> 1 Connect analog A/V cables to the VIDEO 3 input (see page 102). 2 Use the i.LINK Control Panel to activate the analog connection to your i.LINK device (see page 107).

Notes on Connecting i.LINK Devices

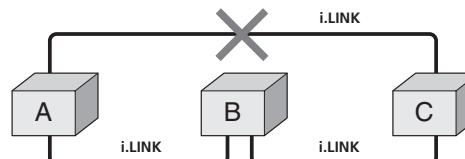
To connect two or more i.LINK devices, use i.LINK cables to connect them as shown below.



You can connect up to 63 i.LINK devices. However, the maximum number of cables in any serial route is 16.



Do not connect i.LINK devices in a way that creates a loop.



Connecting non-compatible devices, such as PCs or PC peripherals, may result in malfunctions.

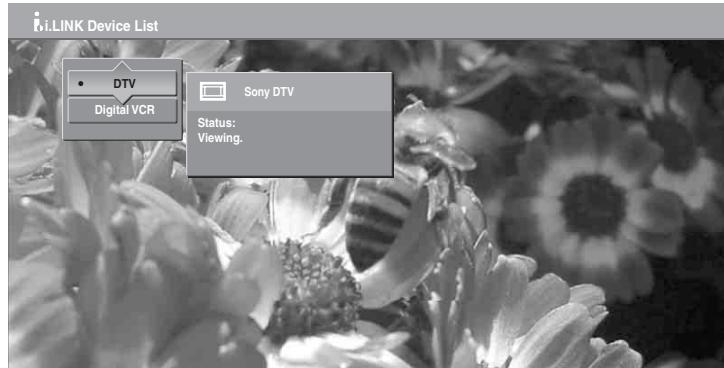
Selecting an i.LINK Device

Before an i.LINK device can be viewed, it must first be selected via the i.LINK Device List.

- 1 Connect the i.LINK device that you wish to operate.

 For instructions on connecting i.LINK devices, see page 102.

- 2 Press **i.LINK** on the media receiver unit or the remote control.



The TV (DTV), along with all devices connected by i.LINK to the TV, appear on the i.LINK Device List.

Devices that are not supported by the TV appear on the Device List as “Other Device,” but cannot be controlled using the TV's remote control or on-screen i.LINK Control Panel. For these devices, use the remote control supplied with the device.

- 3 Press **↑** or **↓** to navigate among the i.LINK-connected devices.

 i.LINK devices can be connected to one another and to the TV while the TV is powered on. The Device List will automatically update to include the newly-connected device. See page 102 for more information on connecting i.LINK devices.

- 4 Press **(+)** to select the desired device and display the device's i.LINK Control Panel. Use the i.LINK Control Panel to operate the selected device. For details, see page 105.

Using the i.LINK Control Panel

After you select an i.LINK device using the Device List, the TV displays the i.LINK Control Panel, which allows you to use the TV's remote to control the selected i.LINK device.

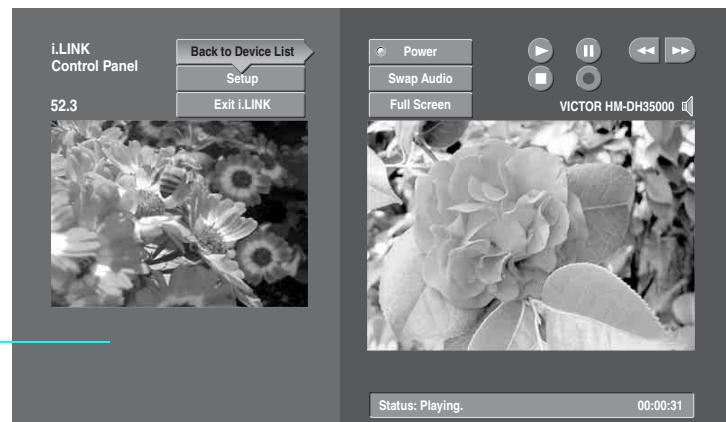
- 1 If the i.LINK Control Panel is not already displayed, press **i.LINK** on the remote control.

 If i.LINK is pressed while the TV is displaying an analog or digital channel (not the i.LINK device), then the Device List will appear. Select the desired device from the list and press  to display the Control Panel.

- 2 Press **↑ ↓ ← →** on the remote control to navigate through the options available in the i.LINK Control Panel.
- 3 Press  to select a desired option.
- 4 Press **EXIT** to exit the Control Panel and view the i.LINK device full-screen.

 To exit i.LINK mode, select DTV from the Device List or press **CH +/-**.

The DTV window appears only if the i.LINK menus were entered while watching a digital TV channel



The i.LINK Control Panel displays the signal from the TV to the left on screen (if available), and the signal from the currently selected device to the right on screen.

(Continued)

Using i.LINK

To Do This ...	Do This ...
Go to the Device List	Press     to highlight Back to Device List and press  .
Change the audio being played from the TV to the current selected device, and vice versa	Press     to highlight Swap Audio and press  . An icon appears next to the window that currently has sound.
Play a recording from the selected i.LINK camcorder or digital VCR	Press     to highlight  and press  .
Fast-forward or rewind a recording from the selected i.LINK camcorder or digital VCR	Press     to highlight  or  and press  .
Record from TV to the selected i.LINK digital VCR	If the  (Record) button is available, press     to highlight  and press  .
Stop a recording from the selected i.LINK digital VCR	Press     to highlight  and press  .
Turn the selected device power on and off	Press     to highlight Power and press  .
Setup the selected device	Press     to highlight Setup and press  . For more details on Setup, see page 107.

Notes About Controlling i.LINK Devices

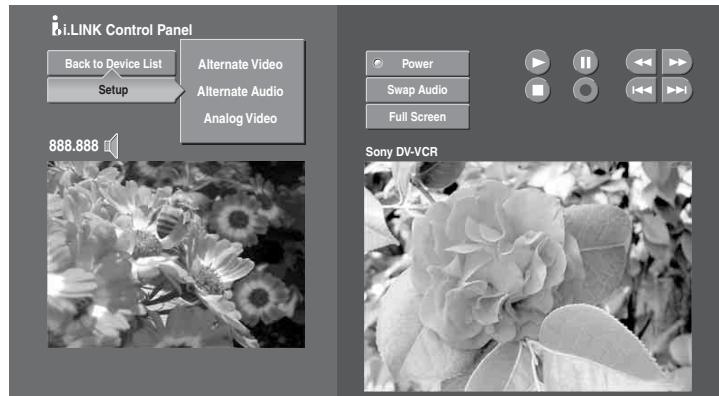
- You can control the functions of the selected i.LINK device by using the equivalent buttons on the TV's remote control. To program the remote control to operate i.LINK devices, see "Programming the Remote Control" on page 64.
- Some options on the i.LINK Control Panel may not be available, depending on the device being controlled.
- Only i.LINK-equipped digital camcorders and digital VCRs can be controlled directly through the i.LINK Control Panel.
- Not all functions are supported for all i.LINK devices.
- If you are using a digital VCR, turn off any Auto LINC functionality of the VCR. For details, see the digital VCR's user manual.

i.LINK Setup

You can use the i.LINK Control Panel to access digital setup options, some of which are also available through the Digital Program Guide (described on page 71).

To set up the selected device:

Press **↑ ↓ ← →** to highlight **Setup** and press **OK**.



The following options are displayed:

Option	Description
Alternate Video (when available)	Each program has a main video stream (the video that you see when the channel is first tuned), and may have alternate video streams. This option allows you to switch among these alternate video streams.
Alternate Audio (when available)	Each program has a main audio stream (the audio that you hear when the channel is first tuned), and may have alternate audio streams. This option allows you to switch among these alternate audio streams (e.g., for different languages).
Analog Video	The TV is able to accept an analog signal from a selected set-top box. The set-top box must be EIA-775A compliant and must be connected to the TV's VIDEO 3 input. To associate the device with the TV's analog VIDEO 3 input, press ↑ or ↓ to select Analog Video and press OK . All EIA-775A-compliant devices will be shown in the list. Select the desired device from the list and press OK .

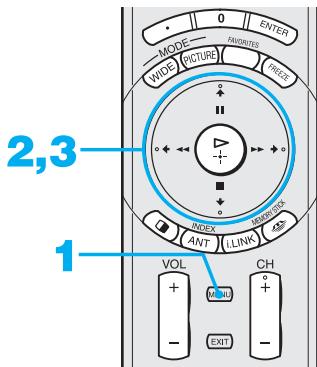
Notes on i.LINK

- The TV can act as an i.LINK repeater, so that i.LINK signals are relayed to another device even when the TV is powered off. To enable this feature, set the **i.LINK Standby** option to **On** using the **Setup Menu** as described on page 126.
- Parental Control settings apply to the signal from a selected device. For more details, see page 121.

Using the Menus

Overview

Opening and choosing a menu



- 1 Press **MENU** to display the menu screen.
- 2 Press **↑** or **↓** to highlight the desired menu icon and press **▷** to select it.
- 3 Use the arrow button to scroll through the features.
- 4 See the specific menu page for instructions on moving through the menu.

To end a menu session:

- Press **MENU** again.

To end one menu session and move to another:

- Press **◀** to return to the menu icons.
Press the arrow buttons to choose the next menu icon and press **▷** to select it.

The Menu gives you access to the following features:

Menu Icon	Description	Page
	The Video Menu allows you to make adjustments to your picture settings. It also allows you to customize the Picture Mode based on the type of program you are viewing, select Advanced Video options, and more.	110
	The Audio Menu offers enhanced audio options such as listening to second audio programming (SAP) or customizing the Effect of the sound on your TV.	114
	The Screen Menu allows you to make Wide Mode adjustments and make changes to the screen's vertical center and size. The Overscan feature lets you fix the overscan problem.	117
	The Channel Menu allows you to set up a Favorite Channels list, run the Auto Program function, label channels, and more.	119
	The Parent Menu lets you control the viewing of programs based on their ratings.	121
	The Setup Menu provides options for setting up your system, including selecting closed caption modes, labeling video inputs, selecting the language of the on-screen menus, and more.	125
	The Applications Menu lets you display the Memory Stick Viewer and the i.LINK Control Panel, set on/off Timers, access CableCARD and diagnostics information, and more.	130

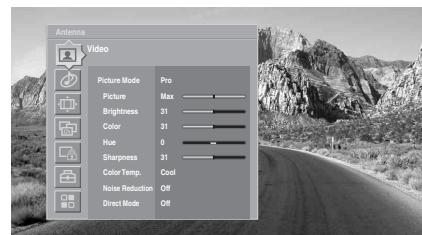
Press **MENU** to enter and exit Menus.



Using the Video Menu

To select the Video menu

- 1 Press MENU.
- 2 Press **↑** or **↓** to highlight the Video icon  and press **OK**.
- 3 Use the arrow buttons to scroll through the features.
- 4 Press **OK** to select a feature.
- 5 Use the arrow buttons to make the desired adjustments.
- 6 Press **OK** to select/set.
- 7 Press MENU to exit the menu screen.



To restore the factory default settings for the Video settings:

- Press RESET on the remote control when in the Video menu.

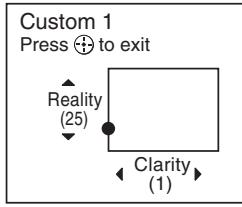
Selecting Video Options

 To quickly and easily change from one Picture Mode to another, use PICTURE on the remote control.

The Video menu includes the following options:

Option	Description
Picture Mode	Vivid Select for enhanced picture contrast and sharpness.
Customized picture	Standard Select for standard picture settings. Recommended for home entertainment.
	Pro Select to display a picture with minimum enhancements.
	 You can alter the Video menu settings (Picture, Brightness, Color, etc.) for each Picture Mode and each video input.
	 You can set up a Picture Mode (Vivid, Standard or Pro) independently for each Video input (Video 1- Video 7, including the Antenna input). Your Picture Mode settings are automatically saved after each selection. This allows you to customize the Picture Mode setting for each type of signal source.
Picture	Adjust to increase picture contrast and deepen the color or decrease picture contrast and soften the color.
Brightness	Adjust to brighten or darken the picture.
Color	Adjust to increase or decrease color intensity.
Hue	Adjust to increase or decrease the green tones.
Sharpness	Adjust to sharpen or soften the picture.

Option	Description	
Color Temp.	Choose from three color temperatures:	
<i>White intensity adjustment</i>	Cool	Select to give the white colors a blue tint.
	Neutral	Select to give the white colors a neutral tint.
	Warm	Select to give the white colors a red tint.
Noise Reduction	Select to reduce the noise level of connected equipment. This also reduces the noise level to and signal from the VHF/UHF jack. Select from High , Medium , Low and Off .	
Direct Mode	On	Select for a natural, soft picture.
	Off	Select to turn off the Direct Mode .
Game Mode	On	Select to optimize the lipsync when playing games.
	Off	Select to turn off the Game Mode .
Backlight	Adjust	Select to adjust the brightness of the screen.
Contrast Enhancer	Automatically measures the brightness of the screen and adjusts the screen's backlight and contrast for optimal settings. Especially useful in adjusting dark images that tend to look smeared, this feature helps create clear and vibrant pictures. Select from On or Off .	
Advanced Video	Select Program to choose among the options described below.	
	DRC Mode	Creates a high-resolution picture with 4 x density, for high quality sources (i.e., DVD player, satellite receiver).
	Mode 1	Recommended for moving pictures.
	Mode 2	Recommended for still images and text.
	CineMotion	Provides an optimized display by automatically detecting film content and applying a reverse 3-2 pulldown process. Moving pictures will appear clearer and more natural-looking.
	 DRC Mode is not available when you are watching 480p and 720p sources or using multi-picture functions (Twin View, Freeze or Memory Stick), or when Direct Mode is set to On or Game Mode is set to On.	

Option	Description
DRC Palette	Allows you to customize the level of detail (Reality) and smoothness (Clarity) for up to three input sources. For example, you can create one Custom setting to optimize your cable input's picture, and create another to optimize your DVD player's picture. You can switch among the three Custom settings.
1	Press the arrow buttons to highlight Custom 1 , Custom 2 , or Custom 3 and then press  . The DRC palette appears.
	
2	Press the arrow buttons to adjust the position of the marker (●). As you move the ● higher along the Reality axis, the picture becomes more detailed. As you move the ● to the right along the Clarity axis, the picture becomes smoother.
3	To save the setting, press  . To return the Custom options to the default factory settings, press the RESET button.
 DRC Palette is not available when you are watching 480p and 720p sources or using multi-picture functions (Twin View, Freeze or Memory Stick), or when Direct Mode is set to On or Game Mode is set to On.	
BN Smoothen	Select to reduce noise caused by digital video encoding and decoding process. It is especially effective for watching a DVD or digital TV picture. Select from High , Medium , Low , and Off .
 BN Smoother may not be able to correct image quality from some connected equipment.	
 BN Smoother is not available when you are watching 480p, 720p, and 1080i sources or using multi-picture functions (Twin View, Freeze or Memory Stick).	
Color Space	Use to select the range of color reproduction from Normal or Wide .
Color Corrector	Select to make the colors more vivid. Select from High , Low , and Off .
DTE	Select to enhance the texture of the picture. Select from High , Medium , Low , and Off .

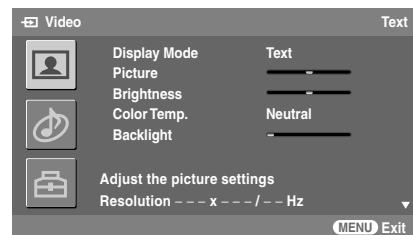
 **BN Smoother** may not be effective for some connected equipment.

Option	Description
Clear White	Select to emphasize the white colors. Select from On or Off .
Detail Enhancer	Select to sharpen picture definition. Select from High , Medium , Low , and Off .
Black Corrector	Select to enhance the black colors to give the picture strong contrast. Select from High , Medium , Low , and Off .
Gamma Corrector	Select to adjust the balance between bright and dark areas of the picture. Select from High , Medium , Low , and Off .
White Balance	Select to fine-adjust the white color intensity by changing the red, green and blue levels. Select to choose among the R-Gain , G-Gain , B-Gain , R-Bias , G-Bias , and B-Bias options. To restore the factory default setting of White Balance , select Initial set .

Selecting PC Video Options

To display the PC screen:

- See “Using the PC Input” on page 81.



The PC Input Video menu includes the following options:

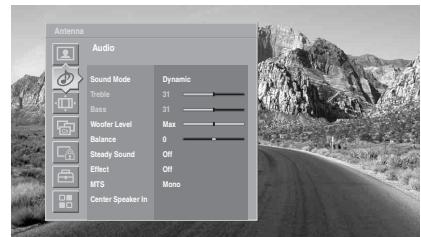
Option	Description
Display Mode	Video Select to view video images. Text Select to view text, charts or tables.
Picture	Adjust to increase or decrease picture contrast.
Brightness	Adjust to brighten or darken the picture.
Color Temp.	Choose from three color temperatures: Cool Select to give the white colors a blue tint. Neutral Select to give the white colors a neutral tint. Warm Select to give the white colors a red tint.
Backlight	Select to adjust the brightness of the screen.
Reset	Select to restore the factory default settings.



Using the Audio Menu

To select the Audio menu

- 1 Press MENU.
- 2 Press **↑** or **↓** to highlight the Audio icon  and press .
- 3 Use the arrow buttons to scroll through the options.
- 4 Press  to select an option.
- 5 Use the arrow buttons to scroll through the settings.
- 6 Press  to select the desired setting.
- 7 Press MENU to exit the menu screen.



To restore the factory default settings for Treble, Bass and Balance

- Press RESET on the remote control when in the Audio menu.

Selecting Audio Options

The Audio menu includes the following options:

Option	Description	
Sound Mode	Dynamic	Select to enhance treble and bass.
Customized audio settings	Clear Voice	Suitable for spoken dialogue.
Custom	Custom	Flat setting. Also allows you to customize the settings.
	 Treble and Bass are not available when Dynamic or Clear Voice is selected in Sound Mode.	
Treble	Adjust	to increase or decrease higher-pitched sounds.
Bass	Adjust	to increase or decrease lower-pitched sounds.
Woofer Level	Adjust	to decrease or increase woofer sound level.
Balance	Adjust	to emphasize left or right speaker volume.
Steady Sound	Auto	Select to stabilize the volume across all programs and commercials.
	Off	Select to turn off Steady Sound.
	 Steady Sound is not available when Effect is set to Dolby Virtual, TruSurround or Simulated.	
Effect	Dolby Virtual	Select for surround sound (for Dolby surround encoded programs only).

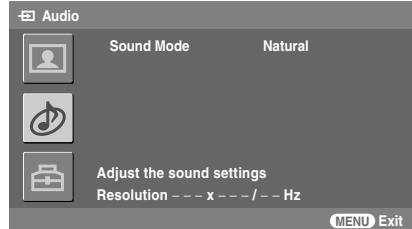
 Dolby Virtual and TruSurround attempt to create the same surround effect produced by a multichannel system using the left and right speakers.

Option	Description	
TruSurround	Select for surround sound (for stereo programs only).	
Simulated	Adds a surround-like effect to mono programs.	
Off	Normal stereo or mono reception.	
MTS <i>Enjoy stereo, bilingual and mono programs</i>	<p>Stereo Select for stereo reception when viewing a program broadcast in stereo.</p> <p>Auto SAP Select to automatically switch to second audio programs when a signal is received. (If no SAP signal is present, the TV remains in Stereo mode.)</p> <p>Mono Select for mono reception. (Use to reduce noise during weak stereo broadcasts.)</p>	
	 MTS is available only for analog programs.	
Center Speaker In	Select the video input (TV, Video 1-7, Memory Stick, or i.LINK) you want to use with the TV's speakers as the center speaker.	
	 The Center Speaker In option is not available for the PC input.	
Phase	This option can be set when the Center Speaker In option is set to On. Select Reverse, if the sound from the TV's speaker (as the center speaker) sounds unnatural. The default setting is Normal.	
Audio Out <i>Easy control of volume adjustments</i>	<p>Variable The TV's speakers are turned off, but the audio output from your audio system can still be controlled by the TV's remote control.</p> <p>Fixed The TV's speakers are turned off and the audio output of the TV is fixed. Use your audio receiver's volume control to adjust the volume (and other settings) through your audio system.</p>	
	 Audio Out is automatically set to Fixed when Center Speaker In is set to On.	
Speaker	<p>On Select to turn on the TV speakers.</p> <p>Off Select to turn off the TV speakers and output the TV's sound only through your external audio system speakers.</p>	
	 The Speaker option is not available when Center Speaker In is set to On.	

Selecting PC Audio Options

To display the PC screen:

- See “Using the PC Input” on page 81.



The PC Input Audio menu includes the following options:

Option	Description
Sound Mode	Dynamic Select to enhance treble and bass.
	Clear Voice Suitable for spoken dialogue.
	Natural Flat setting.



Using the Screen Menu

To select the Screen menu

- 1 Press **MENU**.
- 2 Press **▲** or **▼** to highlight the Screen icon  and press **OK**.
- 3 Use the arrow buttons to scroll through the features.
- 4 Press **OK** to select a feature.
- 5 Use the arrow buttons to scroll through the options.
- 6 Press **OK** to select the desired option.
- 7 Press **MENU** to exit the menu screen.



Selecting Screen Options

 **Wide Mode** is not available if you are using Twin View (page 74), Freeze (page 79) or Memory Stick (page 83).

The Screen menu includes the following options:

Option	Description
Wide Mode <i>Select a screen mode to use for 4:3 sources.</i>	Wide Zoom Select to enlarge the 4:3 picture, to fill the 16:9 screen, keeping the original image as much as possible. Normal Select to return the 4:3 picture to its original size and aspect ratio.  Normal is not available when you are watching 720p or 1080i sources.
Full	Select to enlarge the 4:3 picture horizontally only, to fill the wide screen.
Zoom	Select to enlarge the 4:3 picture horizontally and vertically to an equal aspect ratio that fills the wide screen.
 To change from one Wide Mode setting to another, use WIDE on the remote control (see page 72).	
Game Picture	Adjust Allows you to move the position of the picture left and right in the window. (This feature also allows you to adjust the picture from any connected equipment.) Select while watching the picture to be adjusted. The TV stores the position in memory for each input. Press ◀ or ▶ and press OK to choose a correction between +10 and -10.

 If **4:3 Default** is set to anything but **Off**, the **Wide Mode** setting changes only for the current channel. When you change channels (or inputs), **Wide Mode** is automatically replaced with the **4:3 Default** setting. To retain the current **Wide Mode** setting as channels and inputs are changed, set **4:3 Default** to **Off**.

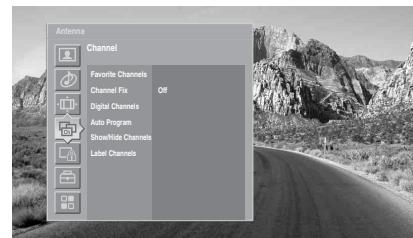
Option	Description
4:3 Default <i>Select the default screen mode to use for 4:3 sources.</i>	Wide Zoom Select to enlarge the 4:3 picture, to fill the 16:9 screen, keeping the original image as much as possible. Normal Select to return the 4:3 picture to normal mode. Full Select to enlarge the 4:3 picture horizontally only, to fill the wide screen. Zoom Select to enlarge the 4:3 picture horizontally and vertically to an equal aspect ratio that fills the wide screen. Off Select to continue using the current screen mode setting when the channel or input is changed.
Overscan	Normal Select to display the picture in the original size. +1 or +2 Select to enlarge the picture to hide the edge of the picture and image noise.
Vertical Center	Adjust Allows you to move the position of the picture up and down in the window. (Available only in Wide Zoom and Zoom modes.) Press ▲ or ▼ and press  to choose a correction between +10 and -10.
Vertical Size	Adjust Allows you to adjust the vertical size of the picture. (Available only in Wide Zoom and Zoom modes.) Press ▲ or ▼ and press  to choose a correction between +10 and -10.



Using the Channel Menu

To select the Channel menu

- 1 Press **MENU**.
- 2 Press **↑** or **↓** to highlight the Channel icon  and press **OK**.
- 3 Use the arrow buttons to scroll through the features.
- 4 Press **OK** to select a feature.
- 5 Use the arrow buttons to scroll through the options.
- 6 Press **OK** to select the desired option.
- 7 Press **MENU** to exit the menu screen.



Selecting Channel Options

 If you are using Video 1 or 4 from the **Channel Fix** options, you can switch back and forth between these inputs by using the **TV/VIDEO** button only. Note that pressing any other buttons does not allow you to change the video input.

The Channel menu includes the following options:

Option	Description
Favorite Channels	Lets you set up a list of your favorite channels. For details, see "Using Favorite Channels" on page 77.
Channel Fix	Off Turns off Channel Fix .
<i>Useful when you have a cable box or satellite receiver connected</i>	2-6 "Fix" your TV's channel setting to one channel (2-6) and use the cable box, VCR or satellite receiver to change channels. Select one of these settings if you have connected the device to the VHF/UHF jack.
C2-C6	"Fix" your TV's channel setting to C2-C6 (CABLE input) and use the cable box or satellite receiver to change channels.
Video 1, 4	Use when connecting a cable box. TV output should be connected through the cable box.
Digital Channels	Add Select to add digital channels.
Auto Program	Start Automatically sets up the channel list on the TV for all receivable channels for the current input (VHF/UHF or CABLE).

 Auto Program may take more than 50 minutes to complete. A progress bar will display the approximate progress of the Auto Program and Digital Channels/Add sequences.

 Channels that you set to hide can only be accessed with the **0-9** buttons.

Option	Description
Show/Hide Channels	<p>Allows you to show or hide channels that appear in the Program Guide (see page 70) and when you use the CH +/- buttons to channel surf. Channels that are set to Hidden do not appear in the Program Guide or when you use the CH +/- buttons.</p> <p>1 Press ▲ or ▼ to highlight the channel that you want to show or hide.</p> <p>To move between the Major and Digital subchannel lists, press ◀ or ▶.</p> <p>2 To change a channel's setting to Shown or Hidden, press .</p> <p>3 To show or hide more channels, repeat steps 1 and 2.</p> <p> If you select to hide or show a major digital channel, all the sub-channels are automatically hidden or shown. To show or hide an individual sub-channel within a digital channel, you must individually select that sub-channel to show or hide.</p> <p> If you hide all sub-channels of a major digital channel, that major digital channel is automatically set to Hidden.</p>
Label Channels	<p>Allows you to assign labels (such as station call letters) to channel numbers.</p> <p>1 Press ▲ ▼ to scroll through the channel numbers. Then press  to select the channel number that you want to assign a label.</p> <p>2 Press ▲ ▼ to scroll through the label characters (A-Z, 0-9, etc.). Then press  to select the highlighted character. Repeat to add characters to the label.</p> <p>3 Press ◀ to return to the Channel menu, or press MENU to exit the menus.</p>



Using the Parent Menu

The Parent menu allows you to set up the TV to block programs according to their content and rating levels.

To select the Parent menu

- 1 Press **MENU**.
- 2 Press **↑** or **↓** to highlight the Parent icon and press .
- 3 Use the 0-9 buttons on the remote control to enter a four-digit password.
- 4 If this is the first time you are creating this password, confirm the password by entering it again. (The Parent menu options appear.)
- 5 Press **↑** **↓** **←** **→** to change settings. Press to select the changed setting.
- 6 Press **MENU** to exit the menu screen.



You need your password for any future access into the Parent menu. If you lose your password, see "Lost password" on page 142.

Selecting Parent Options

The Parent menu includes the following options:

Option	Description
Parental Lock <i>Turn ratings on/off and select a rating system</i>	Off Turn Parental Lock off. No programs are blocked from viewing.
	Child Maximum ratings permitted are: US: TV-Y, TV-G, G Canada: C, G, TV-Y
	Youth Maximum ratings permitted are: US: TV-PG, PG Canada: C8+, PG, 8 ans+, TV-PG
	Y. Adult Maximum ratings permitted are: US: TV-14, PG-13 Canada: 14+, 13 ans+, TV-14
Custom	Select to set ratings manually. US: See page 123 for details. Canada: See page 124 for details.

(Continued)

 If you are not familiar with the Parental Guideline rating system, you should select **Child**, **Youth**, or **Y.Adult** to help simplify the rating selection. To set more restrictive ratings, select **Custom**.

 For descriptions of **Child**, **Youth**, and **Y.Adult** ratings, see page 121.

Option	Description	
Change Password	Select to change your password.	
Select Country	U.S.A.	Select to use U.S.A. ratings (see page 123).
	Canada	Select to use Canadian ratings (see page 124).

To deactivate the parental control feature

- Set **Parental Lock** to **Off** when in the Parent menu.

To change the password

- 1 In the Parent menu, use the arrow buttons to highlight **Change Password**, and press  to select it.
- 2 Enter a new four-digit password using the **0-9** buttons.
- 3 Confirm the new password by entering it again.
- 4 Press **MENU** to exit the menu screen.

Viewing Blocked Programs

You can view a blocked program by entering the password.

- 1 Press **ENTER** when tuned to a blocked program.
- 2 Enter your password using the **0-9** buttons.
Parental control will be canceled temporarily until you turn your TV off.

Selecting Custom Rating Options

 To ensure maximum blocking capability, the age-based ratings should be blocked.

 If you select **Block**, be aware that the following programs may be blocked: news, sports, weather, emergency broadcasts, political programs, public service announcements, and religious programs.

US custom rating options

If you selected U.S.A. as the country of residence on page 122, the Custom Rating menu includes the following options. (If you selected Canada, see page 124.)

Option	Description
Movie Rating	<p>G All children and general audiences.</p> <p>PG Parental guidance suggested.</p> <p>PG-13 Parental guidance for children under 13.</p> <p>R Restricted viewing, parental guidance is suggested for children under 17.</p> <p>NC-17 No one 17 and under.</p> <p>and X</p>
TV Rating	Age-Based Options
<i>Block programs by their rating, content or both</i>	<p>TV-Y All children.</p> <p>TV-Y7 Directed to children age 7 and older.</p> <p>TV-G General audience.</p> <p>TV-PG Parental guidance suggested.</p> <p>TV-14 Parents strongly cautioned.</p> <p>TV-MA Mature audience only.</p>
	Content-Based Options
	<p>FV Fantasy violence.</p> <p>D Suggestive dialog.</p> <p>L Strong language.</p> <p>S Sexual situations.</p> <p>V Violence.</p>
Unrated	<p>Allow Allows programs and movies that are broadcast without a rating.</p> <p>Block Blocks all programs and movies that are broadcast without a rating.</p>

 The content ratings will increase depending on the level of the age-based rating. For example, a program with a **TV-PG V** (Violence) rating may contain moderate violence, while a **TV-14 V** (Violence) rating may contain more intense violence.

Canadian custom rating options

If you selected Canada as the country of residence on page 122, the Custom Rating menu includes the following options. (If you selected U.S.A., see page 123.)

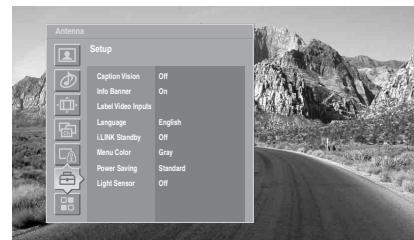
Option	Description
English Rating	C All children.
	C8+ Children 8 years and older.
	G General programming.
	PG Parental guidance.
	14+ Viewers 14 and older.
	18+ Adult programming.
French Rating	G General programming.
	8 ans+ Not recommended for ages under 8.
	13 ans+ Not recommended for ages under 13.
	16 ans+ Not recommended for ages under 16.
U.S.A. Rating	See “TV Rating” on page 123 for details.



Using the Setup Menu

To select the Setup menu

- 1 Press MENU.
- 2 Press **↑** or **↓** to highlight the Setup icon  and press **OK**.
- 3 Use the arrow buttons to scroll through the features.
- 4 Press **OK** to select a feature.
- 5 Use the arrow buttons to scroll through the options.
- 6 Press **OK** to select the desired option.
- 7 Press MENU to exit the menu screen.



Selecting Setup Options

The Setup menu includes the following options:

Option	Description
Caption Vision	Allows you to select from four closed caption modes (for programs that are broadcast with closed captioning).
Program	Allows you to set basic and advanced Caption Vision options. See “Programming Caption Vision” on page 126.
On	Caption Vision is turned on.
Off	Caption Vision is turned off.
Info Banner	Set to On or Off . When on, displays the program name, time remaining and other information (if the broadcaster offers this service). Displays when the channel is changed or the DISPLAY button is pressed.
Label Video Inputs	Allows you to label the audio/video equipment you have connected to the TV so you can identify them when using TV/VIDEO . When in this menu: <ol style="list-style-type: none"> 1 Press ↑ or ↓ to highlight an input to label, then press OK to select it. 2 Use the arrow buttons to scroll through the labels. 3 Press OK to select the equipment you connected to each of the input jacks on the back of your TV. Select Skip if you do not have any equipment connected to a particular input.

Option	Description						
Video 1-3	Video 1-3, VHS, DVD, Receiver, Satellite, Cable Box, 8mm, DTV, Game, LD, Beta, Skip						
Video 4-7	Video 4-7, DVD, Satellite, Cable Box, DTV, HD, Game, PVR, Skip						
Video 8 (PC)	Video 8 (PC), Skip						
	 If you select Skip, your TV skips the selected connection when you press TV/VIDEO.						
Language	Select to display all on-screen menus in your language of choice: English, Español, Français .						
iLINK Standby	<table> <tr> <td>On</td><td>Allows the iLINK signal to pass through to connected iLINK devices even when the TV is turned off. The front panel iLINK Standby LED shows red. The TV uses more standby power than when this option is set to Off.</td></tr> <tr> <td>Off</td><td>Does not allow the iLINK signal to pass through to connected iLINK devices when the TV is turned off. The TV uses less standby power than when this option is set to On.</td></tr> </table>	On	Allows the iLINK signal to pass through to connected iLINK devices even when the TV is turned off. The front panel iLINK Standby LED shows red. The TV uses more standby power than when this option is set to Off .	Off	Does not allow the iLINK signal to pass through to connected iLINK devices when the TV is turned off. The TV uses less standby power than when this option is set to On .		
On	Allows the iLINK signal to pass through to connected iLINK devices even when the TV is turned off. The front panel iLINK Standby LED shows red. The TV uses more standby power than when this option is set to Off .						
Off	Does not allow the iLINK signal to pass through to connected iLINK devices when the TV is turned off. The TV uses less standby power than when this option is set to On .						
Menu Color	Enables you to select a specific color for the on-screen menus from Gray, Red, Aqua, Purple, and Tan .						
Power Saving	<table> <tr> <td>Standard</td><td>Select to view picture without the benefit of Power Saving.</td></tr> <tr> <td>Reduced</td><td>Select to view picture with reduced power consumption. The picture becomes darker, but also enhances the black level.</td></tr> <tr> <td>Picture Off</td><td>Select to turn off the picture.</td></tr> </table>	Standard	Select to view picture without the benefit of Power Saving .	Reduced	Select to view picture with reduced power consumption. The picture becomes darker, but also enhances the black level.	Picture Off	Select to turn off the picture.
Standard	Select to view picture without the benefit of Power Saving .						
Reduced	Select to view picture with reduced power consumption. The picture becomes darker, but also enhances the black level.						
Picture Off	Select to turn off the picture.						
Light Sensor	Set to On or Off . When on, the brightness of the screen is automatically adjusted according to the brightness of the room.						

 If a CableCARD is inserted, the **iLINK Standby Off** setting uses the same amount of power as the **iLINK Standby On** setting.

Programming Caption Vision

If you selected the **Program** option under **Caption Vision** (see page 125), you can change the following settings:

Option	Description
Basic	Allows you to select basic analog (EIA-608) closed caption options.
CC1, CC2, CC3, CC4	Displays a printed version of the dialog or sound effects of a program. (Should be set to CC1 for most programs.)
Text1, Text2, Text3, Text4	Displays network/station information presented using either half or the whole screen (if available). For closed captioning, set to CC1 .
Advanced	Allows you to select advanced digital (EIA-708) closed caption options. Select from the available options.

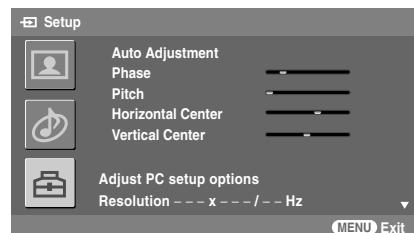
Option	Description
Digital CC	Allows you to set digital closed captioning to Basic (digital EIA-608) or Advanced (digital EIA-708).
Advanced Settings	Allows you to make additional settings for digital (EIA-708) closed caption options. Select from As Broadcast , Small Text , Large Text and Custom .
Custom	Allows you to customize the following settings:
Character Size	Small, Standard, Large
Character Style	Style 1-7
Character Color	Color 1-8
Edge Color	Color 1-8
Edge Type	None, Raised, Depressed, Outline, Left shadow, Right shadow
Background Color	None, Color 1-8
Window Color	None, Color 1-8
 Color options can also be set to Solid or Translucent.	

Selecting PC Setup Options

 When there is no signal input, settings for the PC Setup options except **Power Management** cannot be changed.

To display the PC screen:

- See “Using the PC Input” on page 81.



The PC Input Setup menu includes the following options:

Option	Description
Auto Adjustment	Select to automatically adjust the display position of the picture when the TV receives an input signal from the connected PC. Note that Auto Adjustment may not work well with certain input signals. In such cases, manually adjust the options below.
Phase	Select to adjust the phase when the screen flickers.
Pitch	Select to adjust the pitch when the picture has unwanted vertical stripes.

(Continued)

Option	Description
Horizontal Center	Select to adjust the horizontal position of the picture. Allows you to move the picture left and right in the window. Press ◀ or ▶ and press  to choose a correction between +63 and -64.
Vertical Center	Select to adjust the vertical position of the picture. Allows you to move the picture up and down in the window. Press ◀ or ▶ and press  to choose a correction between +63 and -64.
Wide Mode	Normal Select to display the picture in its original size. Full 1 Select to enlarge the picture to fill the wide screen, keeping its original horizontal-to-vertical ratio. Full 2 Select to enlarge the picture to fill the wide screen.
Power Management	On Select to automatically switch to the Power Saving mode when there is no signal input for 30 seconds. Off Select to turn off Power Management .
Reset	Select to restore the factory default settings.

PC Input Signal Compatibility Chart

Resolution		Horizontal frequency (kHz)	Vertical frequency (Hz)	VESA standard
Signal	Horizontal (Pixel)			
VGA	640	400	31.5	—
	720	400	31.5	—
	640	480	31.5	✓
	640	480	37.9	✓
	640	480	37.5	✓
	640	480	43.3	✓
SVGA	800	600	35.1	✓
	800	600	37.9	✓
	800	600	48.1	✓
	800	600	46.9	✓
	800	600	53.7	✓
XGA	1024	768	48.4	✓
	1024	768	56.5	✓
	1024	768	60	✓
	1024	768	68.7	✓
WXGA	1280	768	47.8	✓
SXGA	1280	1024	64	✓

This TV is not compatible with Sync on Green or Composite Sync.

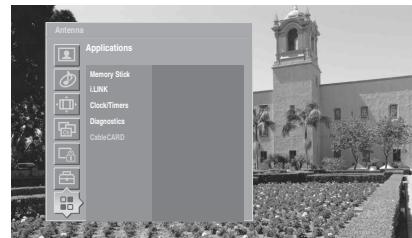
If a signal other than the ones listed above is input, the TV may not properly display the PC screen or it may not allow you to change the settings for the PC input.



Using the Applications Menu

To select the Applications menu

- 1 Press **MENU**.
- 2 Press **↑** or **↓** to highlight the Applications icon  and press **OK**.
- 3 Use the arrow buttons to scroll through the features.
- 4 Press **OK** to select a feature.
- 5 Use the arrow buttons to scroll through the options.
- 6 Press **OK** to select the desired option.
- 7 Press **MENU** to exit the menu screen.



Selecting Applications Options

 You can also use the **MEMORY STICK** and **iLINK** buttons on the remote control or front panel.

Option	Description
Memory Stick	Start Displays the Memory Stick Viewer. For details, see page 90.
iLINK	Start Displays the iLINK Device List. For details, see page 104.
Clock/Timers	Select to set the clock and to program your TV to turn on and off at two scheduled viewing times.
Sleep	Allows you to select the amount of time (15 minutes, 30 minutes, 45 minutes, 60 minutes, 90 minutes or Off) that you want the TV to remain on before shutting off automatically.
Timer 1	You can use the Timers to program the TV to turn on and off and tune to a specific channel at two scheduled viewing times.
Timer 2	
Timer 1 and Timer 2 cannot be set until you set the Current Time.	
1	Press ↑ or ↓ to highlight Timer 1 or Timer 2 . To set the timer, press OK .
 To go directly to programming Timer 1 or 2, press OK instead of pressing OK .	

Option	Description
	<p>2 Press ▲ or ▼ to highlight one of the following options, then press .</p>
Program	Select to set the Timer by day, time, duration, and channel.
Off	Select to turn off the Timer. (Your previous settings are saved.)
3	<p>If you selected Program in step 2, press ▲ and ▼ to set the day(s), hour, minute, duration, and channel number. Press  or press ► to confirm each setting and move to the next setting.</p> <p>Press ◀ to go back to the previous setting.</p>
4	Press MENU to exit the menu screen. An LED on the front panel will light, indicating the Timer has been set.
Current Time	You can set the current time.
1	Press  to select Current Time .
2	Press ▲ and ▼ to set the current time (day, hour, minute, and AM/PM). Press  (or press ►) to confirm each setting and move to the next setting. Press ◀ to go back the previous setting.
3	Press MENU to exit the menu screen.
 When the AC power cord is unplugged, the Clock/Timers settings will be reset. Set the clock or timer again.	
Diagnostics	Display diagnostics information about the TV. This can be useful in providing information to an authorized technician or repair person.
CableCARD	This list of selectable CableCARD options will vary, depending on your cable service provider.

Other Information

Overview

This chapter includes the following topics:

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Troubleshooting	135
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Optional Accessories	145
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Glossary

analog signal A signaling method that uses continuous changes in the amplitude or frequency of an electronic transmission to convey information.

aspect ratio Refers to the ratio between the width and height of the screen. This TV has a 16:9 (widescreen) aspect ratio, as opposed to a 4:3 aspect ratio.

4:3 aspect ratio



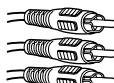
16:9 aspect ratio



CableCARD

The PCMA shaped card provided by your cable TV company which descrambles the digitally encrypted cable channels. You should check with your local cable TV company about CableCARD service.

component video



Component video is sent through three cables: two color shade (chrominance) signals and one brightness (luminance) signal. Component video achieves greater color accuracy than composite video or S VIDEO by splitting chrominance into two separate portions.

composite video

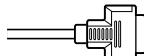


Composite video is sent through a single cable. Composite video combines the color shade (chrominance) and brightness (luminance) information into one video signal.

digital television (DTV)

A new technology for transmitting and receiving broadcast television signals. DTV provides higher resolution and improved sound quality over analog television.

HDMI (High-Definition Multimedia Interface)



Provides an uncompressed, all-digital audio/video interface between this TV and any HDMI-equipped audio/video component, such as a set-top box, DVD player, and A/V receiver. HDMI supports enhanced, or high-definition video, plus two-channel digital audio.

National Television System Committee (NTSC)

A unit of the Federal Communications Commission, Washington, DC, that establishes television standards in the United States, such as NTSC Color, the standard used in this TV.

RF

Radio Frequency. The part of the frequency spectrum that is used to transmit TV and radio signals.

S VIDEO



S VIDEO requires a single cable, which carries the brightness (luminance) and color (chrominance) signals of the picture separately. S VIDEO provides better resolution than composite video, which carries the signals together.

VHF/UHF

VHF (Very High Frequency) is the part of the frequency spectrum from 30 to 300 megahertz. UHF (Ultra High Frequency) is the part of the frequency spectrum from 300 to 3,000 megahertz.

480i

Provides 480 lines of resolution. Displays images using interlaced scanning, which first transmits all the odd lines on the TV screen and then the even lines.

480p

Provides 480 lines of resolution. Displays images using progressive scanning, which transmits each line from top to bottom.

720p

Provides 720 lines of resolution. Displays images using progressive scanning, which transmits each line from top to bottom.

1080i

Provides 1080 lines of resolution. Displays images using interlaced scanning, which first transmits all the odd lines on the TV screen and then the even lines. 1080i is one of the formats used by HDTV (High Definition TV).

Contacting Sony

If, after reading these operating instructions, you have additional questions related to the use of your Sony television, please call our QUALIA Customer Center at 1-877-QUALIA3(782-5423) (US residents only) or Customer Information Service Center at 1-877-899-SONY (7669) (Canadian residents only).

Before calling Sony customer support, please write down the model and serial numbers of your TV. You'll find this information on the front cover of this manual.

Troubleshooting

Twin View

Problem	Possible Remedies
I cannot get Twin View to work	<ul style="list-style-type: none"> <input type="checkbox"/> If you are using a cable box to unscramble all channels (as shown on page 34), you cannot use the Twin View feature. This is because the cable box can unscramble only one channel at a time. <input type="checkbox"/> You can use Twin View to view a signal from a different source that is connected to the TV's A/V jacks (such as a VCR or DVD player) in the second window by pressing TV/VIDEO while in Twin View. <input type="checkbox"/> Sources connected to the CABLE, VIDEO 4, VIDEO 5, VIDEO 6 and VIDEO 7 inputs, as well as digital source display only in the left Twin View window. <input type="checkbox"/> Twin View does not display images from a Memory Stick, an i.LINK-equipped device, or a personal computer.
There is no Twin View window, or it is just static	<ul style="list-style-type: none"> <input type="checkbox"/> Be sure the Twin View window is set to a video input or channel that has a signal airing. <input type="checkbox"/> You might be tuned to a video input with nothing connected to it. Try cycling through the video inputs by pressing TV/VIDEO.
Twin View cannot display anything but TV channels	<ul style="list-style-type: none"> <input type="checkbox"/> Try cycling through the video inputs by pressing TV/VIDEO. Check that the Label Video Inputs option is not set to Skip. (See the Setup menu on page 125.) <input type="checkbox"/> Twin View does not display images from a Memory Stick, an i.LINK-equipped device, or a personal computer.
Twin View displays the same program in both windows	<ul style="list-style-type: none"> <input type="checkbox"/> Both Twin View windows might be set to the same channel. Try changing channels in either window.

Remote Control

Problem	Possible Remedies
Remote control does not operate	<ul style="list-style-type: none"><input type="checkbox"/> The batteries could be weak. Replace the batteries.<input type="checkbox"/> Check the orientation of the batteries.<input type="checkbox"/> Press FUNCTION repeatedly until the TV indicator lights up. You may have inadvertently pressed FUNCTION, which changes the remote control to SAT or CABLE mode.<input type="checkbox"/> Make sure this unit's power cord is connected securely to the wall outlet.<input type="checkbox"/> Locate the unit at least 3-4 feet away from fluorescent lights.
Cannot change channels with the remote control	<ul style="list-style-type: none"><input type="checkbox"/> If you are using the TV to change channels, first press FUNCTION repeatedly until the TV indicator lights up.<input type="checkbox"/> If you are using another device to change channels, be sure you have not inadvertently switched your TV from the channel 3 or 4 setting. Use the Channel Fix option to "Fix" the channel based on the hookup you used (see page 119).<input type="checkbox"/> If you are using another device to change channels, be sure to press FUNCTION for that device. For example, if you are using your cable box to change channels, be sure to press FUNCTION repeatedly until the SAT/CABLE indicator lights up.
Remote control does not operate non-Sony video equipment	<ul style="list-style-type: none"><input type="checkbox"/> If you replaced the batteries to the remote recently, the code numbers for the video equipment may need to be reset.<input type="checkbox"/> There may be more than one code for the equipment that you are attempting to operate.<input type="checkbox"/> There is a possibility that some non-Sony equipment cannot be operated by your Sony TV remote. You may need to use the equipment's original remote control.

CableCARD

Problem	Possible Remedies
Problems using CableCARD or CableCARD services	<ul style="list-style-type: none"><input type="checkbox"/> Check that the CableCARD is inserted properly (see pages 57-58).<input type="checkbox"/> The CableCARD must be activated by your local cable TV provider before you can receive digital cable TV services. See the activation instructions on pages 57-58.<input type="checkbox"/> Check the Diagnostics and CableCARD menu options (see page 131). (This can be useful in providing information to an authorized technician or repair person.)<input type="checkbox"/> Contact your cable TV provider.

Memory Stick

Problem	Possible Remedies
Image does not display/Cannot see all files	<ul style="list-style-type: none"> <input type="checkbox"/> Some variations of MPEG1 movies may not play back correctly. <input type="checkbox"/> Make sure the image file is a JPEG (.jpg, .jpeg) file or an MPEG1 (.mpg, .mpeg) file. <input type="checkbox"/> Make sure the Memory Stick is inserted properly (see page 86). <input type="checkbox"/> Check the Filter option setting (see page 97). <input type="checkbox"/> Check the Select Folder setting (see page 97) and ensure that files are either in DCF directories if Digital Camera Folders is selected (see page 97), or in the currently selected folder if Select a Folder is selected (see page 97). <input type="checkbox"/> The maximum number of files the Memory Stick Viewer can display is 2,000 files total, including all JPEG, MPEG1, and MP3 files.
JPEG image displays undesirable motion or flicker in full screen	<ul style="list-style-type: none"> <input type="checkbox"/> JPEGs captured using a digital video camera may appear to display motion in full screen. This is a result of the way digital video cameras record still images, and is not a result of a malfunction with the TV.
Rotation not saved after Memory Stick is ejected or Memory Stick Viewer is closed	<ul style="list-style-type: none"> <input type="checkbox"/> The Memory Stick might be locked. Unlock the Memory Stick and try rotating the image again. <input type="checkbox"/> The file might not have information (EXIF data) that is usually generated when a digital camera records a photo. In this case, it is not possible to save the rotation. <input type="checkbox"/> There might be insufficient space on the Memory Stick to save the rotated file. Try deleting one or more files and rotating the image again.
Cannot show (or hide) file information in full screen or Slide Show	<ul style="list-style-type: none"> <input type="checkbox"/> Set the File Information option to On or Off (see page 96).
Cannot see menu	<ul style="list-style-type: none"> <input type="checkbox"/> Press ▲ to display the menu again.
Cannot hear audio while using Memory Stick	<ul style="list-style-type: none"> <input type="checkbox"/> Check the TV's volume or Speaker (see page 115) settings. <input type="checkbox"/> To hear JPEG voice memo, select the Digital Camera Folders option and set the Filter option to Show All Print Marks (see page 97). <input type="checkbox"/> Check that the Music option is not set to Off (see page 96).
Not all MP3 files on Memory Stick are included when the Music/Complete List option is selected (page 96)	<ul style="list-style-type: none"> <input type="checkbox"/> The Memory Stick Viewer can display a maximum of 2,000 files total, including all JPEG, MPEG1, and MP3 files. <input type="checkbox"/> Make sure that the file is named with the file extension (.mp3).
MP3 files on the Memory Stick are not listed	<ul style="list-style-type: none"> <input type="checkbox"/> Only MP3 files that are named with the file extension (.mp3) are displayed in the list.
Music files are playing in wrong order	<ul style="list-style-type: none"> <input type="checkbox"/> MP3 files are played in alphabetical order, according to the folder in which they are stored. If you want to change the playlist order, rename your files alphabetically in the order in which you want them to play or create a MP3 playlist (.m3u file) on a PC.
Cannot see MP3 list to play music	<ul style="list-style-type: none"> <input type="checkbox"/> MP3 files on your Memory Stick only can be played as background music during a Slide Show (see page 96).
MPEG1 movie does not play back correctly	<ul style="list-style-type: none"> <input type="checkbox"/> Some variations of MPEG1 movies may not be compatible with the Memory Stick Viewer. <input type="checkbox"/> MPEG1 movies recorded in VX Fine mode with Sony digital cameras cannot be played back with the Memory Stick Viewer.

(Continued)

Problem	Possible Remedies	
MPEG1 quality is poor when enlarged (page 94)	<input type="checkbox"/>	The quality of the movie when enlarged depends on the resolution of the MPEG1 file. See your camera's instruction manual for details.
Error message is displayed	<input type="checkbox"/>	No Memory Stick There is no Memory Stick in the slot.
	<input type="checkbox"/>	Memory Stick is Locked The lock mechanism on the Memory Stick is engaged.
	<input type="checkbox"/>	Memory Stick Error The Memory Stick in the slot might be damaged; try a different Memory Stick.
	<input type="checkbox"/>	Format Error The Memory Stick may have been formatted using a PC or other device that is not compatible with cameras.
Error icon is displayed		The file is not a valid MPEG1 or JPEG format, or it is a progressive JPEG (which is not supported).
		The thumbnail is not DCF-compatible.
		The file is a JPEG or an MPEG1, but the thumbnail is unreadable.
		The file is unreadable.

Video

Problem	Possible Remedies
No picture (screen not lit), no sound	<ul style="list-style-type: none"> <input type="checkbox"/> If your TV does not turn on, and a red light keeps flashing, your TV may need service. Call your local Sony Service Center. <input type="checkbox"/> Make sure to securely plug the AC power cords of the media receiver unit and the display unit into the wall outlet. <input type="checkbox"/> Press POWER on the front of the media receiver unit. <input type="checkbox"/> Press TV/VIDEO to cycle through the connected video sources. <input type="checkbox"/> Try another channel; it could be station trouble. <input type="checkbox"/> Press PIC OFF so that the PICTURE OFF LED on the display unit goes off. <input type="checkbox"/> Make sure the display interface cable is connected to the display unit as well as the media receiver unit.
Dark, poor or no picture (screen lit), good sound	<ul style="list-style-type: none"> <input type="checkbox"/> Adjust the Picture option in the Video menu (see page 110). <input type="checkbox"/> Adjust the Brightness option in the Video menu (see page 110). <input type="checkbox"/> Check the antenna/cable connections.
No color/dark picture/color is not correct	<ul style="list-style-type: none"> <input type="checkbox"/> Adjust the Color option in the Video menu (see page 110).
Only snow and noise appear on the screen	<ul style="list-style-type: none"> <input type="checkbox"/> Check the antenna/cable connections. <input type="checkbox"/> Try another channel; it could be station trouble. <input type="checkbox"/> Press ANT to change the input mode (see page 62).
Dotted lines or stripes	<ul style="list-style-type: none"> <input type="checkbox"/> Adjust the antenna. <input type="checkbox"/> Move the TV away from noise sources such as cars, neon signs, or hair dryers.
Double images	<ul style="list-style-type: none"> <input type="checkbox"/> Using a highly directional outdoor antenna or a cable may solve the problem.
“Black box” on screen	<ul style="list-style-type: none"> <input type="checkbox"/> You have selected a text option in the Setup menu and no text is available. (See page 125 to reset Setup selections.) To turn off this feature, set the Caption Vision option to Off. If you were trying to select closed captioning, select CC1 instead of Text 1-4.
Black bands appear at the top and bottom of the screen	<ul style="list-style-type: none"> <input type="checkbox"/> Some wide-screen programs are filmed in aspect ratios that are greater than 16:9 (this is especially common with theatrical releases). Your TV will show these programs with black bands at the top and bottom of the screen. For more details, check the documentation that came with your DVD (or contact your program provider).
Certain programs on DVD or other digital sources display a loss of detail, especially during fast-motion or dark scenes	<ul style="list-style-type: none"> <input type="checkbox"/> The compression used by certain digital broadcasts and DVDs may cause your TV’s screen to display less detail than usual, or cause artifacts (small blocks or dots, pixelations) to appear on your screen. This is due to your TV’s large screen and ability to show very fine detail, and is normal for certain digitally recorded programs. Adjust the reality/clarity in the DRC Palette menu (see page 112) to optimize the picture while viewing these sources.
The connected PC’s screen is not displayed on the TV screen	<ul style="list-style-type: none"> <input type="checkbox"/> Depending on the type of personal computer, its screen may not be displayed on the TV screen because of the default signal setting. Change the signal setting of your PC so that it outputs one of the signal types listed in the PC Input Signal Compatibility Chart on page 129. For information on how to change the settings of your PC, see its user guide.

Other Information

Problem	Possible Remedies
Striped noise during playback/ recording of a VCR	<ul style="list-style-type: none"><input type="checkbox"/> This is caused by video head interference. Keep your VCR away from the media receiver unit.<input type="checkbox"/> Leave a space of 30 cm (11 7/8 inches) between your VCR and the media receiver unit to avoid noise.<input type="checkbox"/> Avoid installing your VCR in front of the media receiver unit or at the side of the media receiver unit.

Audio

Problem	Possible Remedies
Good picture, no sound	<ul style="list-style-type: none"><input type="checkbox"/> Press MUTING so that Muting disappears from the screen (see page 62).<input type="checkbox"/> Make sure the Speaker option is set to On in the Audio menu (see page 115).<input type="checkbox"/> Make sure the MTS option is set to Stereo or Mono (see page 115).<input type="checkbox"/> Make sure the speakers are connected correctly (see page 53).<input type="checkbox"/> When the HDMI IN input is in use, surround sound, such as AC-3 and DTS, cannot be input. Change the sound setting for the external input device to Linear PCM.<input type="checkbox"/> Make sure the Center Speaker In option is set to Off when you are not using the TV's speakers as a center speaker (see page 115).
Audio noise	<ul style="list-style-type: none"><input type="checkbox"/> Communication problems may occur if infrared communication equipment (e.g., infrared cordless headphones) is used near the TV. Please use headphones other than infrared cordless headphones. Also, if you use infrared communication equipment other than infrared cordless headphones, move the infrared transceiver away from the TV until the noise is eliminated, or move the transmitter and receiver of the infrared communication equipment closer together.
Cannot gain enough volume when using a cable box	<ul style="list-style-type: none"><input type="checkbox"/> Increase the volume of the cable box using the cable box's remote control. Then press FUNCTION repeatedly until the TV indicator lights up and adjust the TV's volume.
Sound seems weak or insufficient	<ul style="list-style-type: none"><input type="checkbox"/> The TV's audio might be set to Auto SAP or Mono, when it might be better set to Stereo. In the Audio menu (see page 115), set the MTS setting to Stereo. If already set to Stereo, switch to Mono (which may reduce background noise during weak stereo broadcasts).
Cannot raise the volume on external speakers	<ul style="list-style-type: none"><input type="checkbox"/> If the Audio Out option is set to Fixed, use your audio receiver to adjust the sound (see page 115). Or, to use the TV remote control, set the Audio Out option to Variable.<input type="checkbox"/> To turn on the TV speakers, set the Speaker option to On (see page 115).
Although the Center Speaker In option is set to On, the TV speakers do not output sound	<ul style="list-style-type: none"><input type="checkbox"/> Make sure to connect the center speaker output jack of an audio device, such as an AV amplifier, to the CENTER SPEAKER IN jack on the rear of the media receiver unit.<input type="checkbox"/> Make sure the connected audio device is not muted.<input type="checkbox"/> Make sure you are watching a program on TV or DVD that has center-channel sound.

Problem	Possible Remedies
Switching the channel while using the TV speakers as a center speaker causes sound to stop coming out of the TV speakers	<input type="checkbox"/> This is because the program on the new channel does not have center-channel sound. Switch the Center Speaker In option to Off (see page 115).
Switching the Center Speaker In option to Off causes sound to stop coming out of the TV speakers	<input type="checkbox"/> Make sure to connect the audio output jacks on an audio device, such as a VCR or a DVD player, to the audio input jacks on the media receiver unit. For the devices that you wish to output sound from the TV speakers, connect them to the audio input jacks as well as the video input jacks on the media receiver unit.
There is a whirring sound	<input type="checkbox"/> This is the sound of the internal fans of the display unit and the media receiver unit. It is not a malfunction.

Channels

Problem	Possible Remedies
Cannot receive upper channels (UHF) when using an antenna	<input type="checkbox"/> Press ANT to select the VHF/UHF input (see page 62). <input type="checkbox"/> Use Auto Program in the Channel menu to add receivable channels that are not presently in the TV's memory (see page 119).
TV is fixed to one channel	<input type="checkbox"/> Use Auto Program in the Channel menu to add receivable channels that are not presently in the TV's memory (see page 119). <input type="checkbox"/> Check your Channel Fix settings (see page 119).
Cannot receive any channels when using cable TV	<input type="checkbox"/> Use Auto Program in the Channel menu to add receivable channels that are not presently in the TV's memory (see page 119). <input type="checkbox"/> Press ANT to select the CABLE input (see page 62).
Cannot receive or select channels	<input type="checkbox"/> Use Auto Program in the Channel menu to add receivable channels that are not presently in TV's memory (see page 119).
Some digital cable channels are not being displayed	<input type="checkbox"/> Certain cable companies have limitations on the broadcast of digital cable channels. Check with your cable company for more information. <input type="checkbox"/> The digital cable channel may be set to Hidden in the Channel menu (see page 120).

General

Problem	Possible Remedies
How to reset TV to factory settings	<input type="checkbox"/> Turn on the TV. While holding down the RESET button on the remote control, press the POWER button on the Media Receiver Unit. (The TV will turn itself off, then back on again.) Release the RESET button.
How to restore Video settings to factory settings	<input type="checkbox"/> Press RESET on the remote control while in the Video menu (see page 110).
How to restore Audio settings to factory settings	<input type="checkbox"/> Press RESET on the remote control while in the Audio menu (see page 114).
Cannot cycle through the other video equipment connected to the TV	<input type="checkbox"/> Be sure the Label Video Inputs option is not set to Skip (see page 125).

Other Information

Problem	Possible Remedies
Cannot operate Menu	<input type="checkbox"/> If a menu option appears in gray, this indicates that the menu option is not available.
Lost password	<input type="checkbox"/> In the password screen (see page 121), enter the following master password: 4357 . The master password clears your previous password; it cannot be used to temporarily unblock channels.
TIMER LED on front panel is lit	<input type="checkbox"/> The LED (see page 20 or 130) blinks when the TV is turned on, then shuts off when the picture is displayed. If the red LED blinks continuously, this may indicate the TV needs service. When lit, indicates that the timer is set (see page 20 or 130). When the timer is set, this LED will remain lit even when the TV is turned off.
Digital cable box does not work	<input type="checkbox"/> If you are connecting a VCR and digital cable box using a splitter, as described on page 38, you must use a special bi-directional splitter that is designed to work with your digital cable box. Contact your cable provider for details.
Cannot record digital channels to VCR	<input type="checkbox"/> Only analog channels can be recorded to your VCR.
TV cabinet creaks	<input type="checkbox"/> When the TV is in use, there is a natural rise in temperature, causing the cabinet to expand or contract and may be accompanied by a slight creaking noise. This is not a malfunction.
The signal from a selected i.LINK device is not being displayed	<input type="checkbox"/> If you have several i.LINK devices connected and operating at once, the TV may not be able to display the signal from the selected device. Turn the other i.LINK devices off, and reselect the desired i.LINK device. <input type="checkbox"/> If you are using a digital VCR, turn off any Auto LINC functionality of the VCR. For details, see the digital VCR's user manual. <input type="checkbox"/> The i.LINK STANDBY LED blinks in red when the signal from an i.LINK device is being shown.
The TV does not turn on	<input type="checkbox"/> The TV cools down when the power is turned off. It takes up to two minutes for the picture to come back after the TV is turned on again. Wait for a while until the picture comes back.

Specifications

Panel System	LCD Panel	
Display Resolution	1920 pixels (horizontal) x 1080 pixels (vertical)	
Antenna	75 ohm external terminal for VHF/UHF	
Television System	NTSC	American TV Standard
	ATSC (8VSB terrestrial)	ATSC compliant 8VSB
	QAM on cable	ANSI/SCTE 07 2000
Screen Size (measured diagonally)	46 inches	
Channel Coverage	Terrestrial (analog)	2-69
	Cable TV (analog)	1-125
	Terrestrial (digital)	2-69
	Cable TV (digital)	1-135
Power Requirements	120V, 60 Hz	
Inputs/Outputs		
HDMI IN	2 total	Video: 1080i, 720p, 480p, 480i Audio: Two channel linear PCM 32, 44.1 and 48 kHz, 16, 20 and 24 bit
		 Not compatible with compressed sound, such as AC-3 and DTS.
Video (IN)	3 total (1 on front unit)	1 Vp-p, 75 ohms unbalanced, sync negative
S Video (IN)	3 total (1 on front unit)	Y: 1 Vp-p, 75 ohms unbalanced, sync negative C: 0.286 Vp-p (Burst signal), 75 ohms
Audio (IN)	6 total (1 on front unit)	500 mVrms (100% modulation) Impedance: 47 kilohms
Component Video Input	2 (YPbPr)	Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative Pb: 0.7 Vp-p, 75 ohms Pr: 0.7 Vp-p, 75 ohms
CONTROL S (IN)	1	Mini jack
CONTROL S (OUT)	1	Mini jack
AUDIO (VAR/FIX) OUT	1	500 mVrms at the maximum volume setting (Variable) 500 mVrms (Fixed) Impedance (output): 2 kilohms
i.LINK	3 total (1 on front panel)	4-pin S400 i.LINK terminal
RF Inputs	2	
Digital Audio Optical Output (PCM/Dolby Digital)	1	Optical Rectangular (1)
CableCARD Slot	1	PCMCIA Type I/II
SUBWOOFER (VAR)(OUT)	1	Phono jack
CENTER SPEAKER (IN)	1	Max. 180 W (6 Ω), 1 kHz, Sensitivity 30 Vp-p
DISPLAY SIGNAL OUT	1 Black 1 White	

(Continued)

Other Information

PC (IN)	1 (D-sub 15pin)	
PC AUDIO (IN)	1	Stereo mini jack, 500 mVrms, 47 kilohms
Speaker Output	25 W (L), 25 W (R), 50 W (Woofers)	
Dimensions (W x H x D)	Display 1239 x 717 x 130 (mm)	Media Receiver Unit 430 x 97 x 350 (mm)
Mass	Display Approx. 59 kg	Media Receiver Unit Approx. 9.1 kg
Power Consumption		
In Use	Display 612 W	
	Media Receiver Unit 60 W	
In Standby	Display 0.5 W	
	Media Receiver Unit 0.4 W	
In iLINK/CableCARD Standby	Less than 30 W	
Supplied Accessories		
Remote Control	RM-Y1000	
AA (R6) Batteries	2 supplied for remote control	
AC Power Cord	2	
AC Plug Holder	1	
Display Interface Cable	1	
Antenna Cable	1	
Vertical Installation Stand	1	
Vertical Installation Stand Screws	2	
Owner's Guide	1	
Quick Setup Guide	1	
Warranty	1	
Product Registration Card	1	

Design and specifications are subject to change without notice.

Optional Accessories

- HDMI cable
- Component video cable
- S VIDEO cable
- A/V cable
- Audio cable
- Optical cable
- CONTROL S cable : RK-G69
- i.LINK cables: VMC-IL4415 (4-pin to 4-pin, 1.5 meters)
VMC-IL4435 (4-pin to 4-pin, 3.5 meters)
- Display interface cable: VMC-X10 (10 meters)
- Table-Top Stand: SU-XTQ005
- Wall-Mount Bracket: SU-XWQ005
- Floor Stand: SU-XFQ005

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